

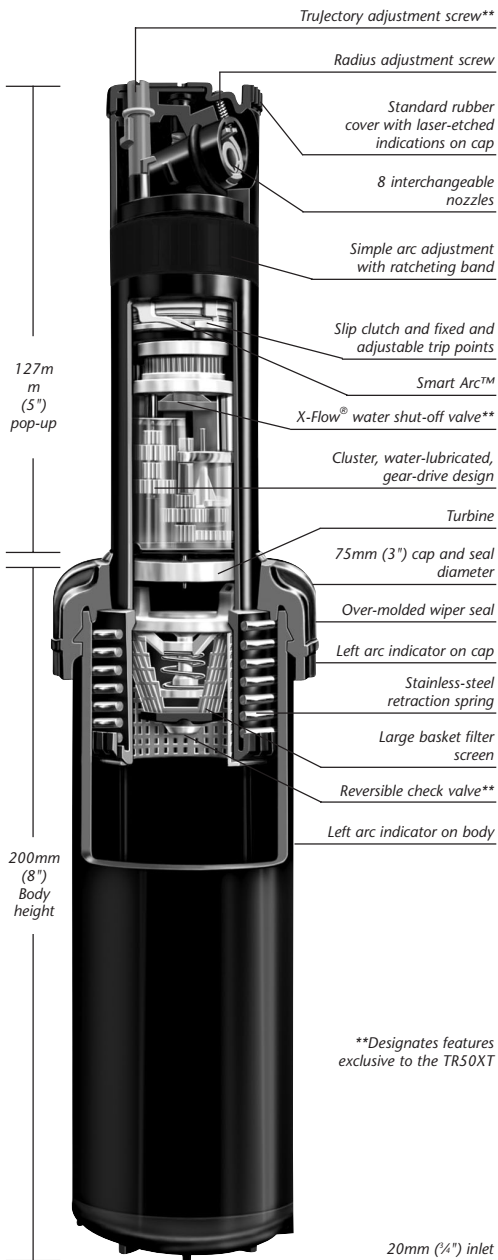
TORO

Count on it.

TR50 and TR50XT

Rotor

SPRINKLERS



TR50 and TR50XT Series

**Designates features exclusive to the TR50XT

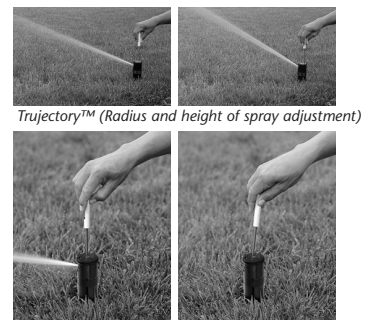
6,5–15,9m (21'–52') Radius

Shared Features of the TR50 and TR50XT

- Simple to set watering pattern with ratcheting arc adjustment
- 127mm (5") pop-up to clear tall turf
- Cluster, water-lubricated, gear-drive design
- Dry mode pull-up slot
- Arc adjustment from 30° to 360°
- Continuous, unidirectional rotation provides uniform water coverage when set at 360°
- Smart Arc™ memory returns sprinkler to previously set arc if vandalized
- Slip clutch assures no damage to gears if vandalized
- Laser-etched indications on cap
- Unique, over-molded wiper seal for greater debris resistance and below-grade installation
- Factory-installed with a #3.0 nozzle
- Left arc indicator on cap (arrow), body (hash mark) and riser (arc band)
- Stainless-steel radius adjustment screw allows up to 25% radius reduction
- Large filter screen to prevent clogging
- 3-year warranty

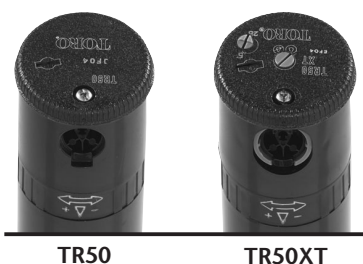
Specifications

- Radius: 6.5m–15.9m (21'–52')
- Flow rate: 3.1–47.5 LPM (0.8–12.5 GPM)
- Trajectory: 5° to 25° (TR50XT only)
- Recommended operating pressure range: 1.7– 4.8 Bar (25–70 PSI)
- Optimum operating pressure: 3.6 Bar (55 PSI)
- 20mm (3/4") female-threaded inlet
- 20mm (3/4") and 13mm (1/2") female-threaded inlet (shrub models)
- Check valve maintains up to 3,0m (10') elevation change on all models (optional for TR50, standard for TR50XT Series)
- 13mm (1/2") below-grade installation
- Dimensions for lawn pop-up:
 - Pop-up to center of nozzle: 120mm (4 3/4")
 - Base diameter: 60mm (2 3/8")
 - Height: 200mm (8")
- Models:
 - Lawn-pop—127mm (5")
 - Shrub
 - High-pop—305mm (12")



Features EXCLUSIVE to the TR50XT

- Trjectory™ adjustment from 5° to 25° for fine-tuning radius and nozzle spray trajectory
- X-Flow® water shut-off for dry nozzle and arc changes
- Color-coded nozzle tree for quick and easy identification and installation
- Standard reversible check valve prevents low-head drainage, keeping laterals charged with water
- Extended 5-year warranty



TR50

TR50XT

TR50 and TR50XT Rotor

TR50 and TR50XT Nozzle Performance Data @ 25° Trajectory – Metric $\triangleleft 25^\circ$

Base Pressure			Nozzle Sets															
			1		1.5		2		3		4.5		6		7.5		9	
Bar	kPa	Kg/cm ²	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM
1,5	150	1,53	9,3	3,1	10,0	4,2	10,0	5,2	10,4	6,4	9,8	10,0	9,9	12,8	10,2	16,0	10,2	19,2
2,0	200	2,04	10,0	3,6	10,8	4,5	10,8	6,1	11,7	7,8	11,4	12,2	11,6	15,7	11,9	19,2	11,9	23,2
2,5	250	2,55	10,6	3,7	11,4	5,3	11,5	7,0	12,3	8,9	12,0	14,2	12,5	17,9	13,0	22,0	13,1	26,7
3,0	300	3,06	11,1	4,0	11,8	5,8	12,0	7,6	12,6	9,9	12,5	15,9	13,2	19,8	13,7	24,7	14,0	29,8
3,5	350	3,57	11,3	4,6	12,2	6,1	12,2	8,0	12,8	10,7	13,1	17,4	14,1	21,6	14,4	27,1	14,7	32,8
4,0	400	4,08	11,5	4,8	12,4	6,7	12,7	8,6	13,0	11,8	13,1	18,9	14,5	23,3	14,8	29,3	14,9	35,6
4,5	450	4,59	11,6	5,3	12,5	7,2	12,8	9,5	13,1	12,5	13,3	20,3	14,6	24,8	14,9	31,1	15,1	37,5
5,0	500	5,10	11,7	5,8	12,5	7,7	12,8	10,4	13,1	13,2	13,5	21,6	14,6	26,3	14,9	32,8	15,2	39,5
5,5	550	5,61	11,9	6,3	12,5	7,9	12,8	11,0	13,1	14,0	13,7	22,7	14,6	27,9	14,9	34,7	15,2	41,9
6,0	600	6,12	12,1	6,9	12,5	8,7	12,8	11,5	13,3	14,8	13,7	23,8	14,8	29,3	15,1	36,4	15,5	43,9
6,5	650	6,63	12,2	7,5	12,6	9,9	12,9	12,2	13,4	15,5	13,7	24,9	15,2	30,5	15,5	38,1	15,7	45,8
7,0	700	7,14	12,2	8,0	12,8	11,1	13,1	13,0	13,4	16,0	13,7	25,9	15,6	31,6	15,9	39,6	15,9	47,5

Recommended pressures for TR50XT rotor only. All performance specifications are based on the stated working pressure available at the base of the sprinkler head. Radius shown in meters.

TR50 and TR50XT Nozzle Performance Data @ 25° Trajectory – English $\triangleleft 25^\circ$

Base Pressure			Nozzle Sets															
			1		1.5		2		3		4.5		6		7.5		9	
PSI	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM
20	30	0.8	32	1.1	32	1.3	33	1.6	31	2.5	31	3.2	32	4.0	32	4.8		
30	33	0.9	36	1.2	36	1.6	39	2.1	38	3.3	39	4.2	40	5.2	40	6.3		
40	36	1.0	38	1.5	39	1.9	41	2.5	40	4.0	42	5.0	44	6.2	45	7.5		
50	37	1.2	40	1.6	40	2.1	42	2.8	43	4.6	46	5.7	47	7.1	48	8.6		
60	38	1.3	41	1.8	42	2.3	43	3.2	43	5.1	48	6.3	49	7.9	49	9.6		
70	38	1.5	41	2.0	42	2.7	43	3.4	44	5.6	48	6.8	49	8.5	50	10.2		
80	39	1.7	41	2.1	42	2.9	43	3.7	45	6.0	48	7.4	49	9.2	50	11.1		
90	40	1.9	41	2.4	42	3.1	44	4.0	45	6.4	49	7.9	50	9.8	51	11.8		
100	40	2.1	42	2.9	43	3.4	44	4.2	45	6.8	41	8.3	52	10.4	52	12.5		

Recommended pressures for TR50XT rotor only. All performance specifications are based on the stated working pressure available at the base of the sprinkler head. Radius shown in feet.

TR50XT Nozzle Performance Data @ 5° Trajectory – Metric $\triangleleft 5^\circ$

Base Pressure			Nozzle Sets															
			1		1.5		2		3		4.5		6		7.5		9	
Bar	kPa	Kg/cm ²	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM	Rad	LPM
1,5	150	1,53	6,5	3,1	6,8	4,2	7,2	5,2	7,6	6,4	7,6	10,0	7,7	12,8	8,2	16,0	8,7	19,2
2,0	200	2,04	6,7	3,6	7,3	4,5	7,8	6,1	9,0	7,8	9,0	12,2	9,2	15,7	9,3	19,2	9,4	23,2
2,5	250	2,55	7,1	3,7	7,9	5,3	8,7	7,0	9,9	8,9	9,9	14,2	10,0	17,9	10,2	22,0	10,4	26,7
3,0	300	3,06	7,4	4,0	8,5	5,8	9,5	7,6	10,7	9,9	10,7	15,9	10,8	19,8	11,1	24,7	11,3	29,8
3,5	350	3,57	7,7	4,6	9,2	6,1	10,1	8,0	11,3	10,7	11,3	17,4	11,6	21,6	11,9	27,1	12,0	32,8
4,0	400	4,08	8,1	4,8	9,4	6,7	10,3	8,6	11,3	11,8	11,8	18,9	11,8	23,3	12,4	29,3	12,6	35,6
4,5	450	4,59	8,5	5,3	9,6	7,2	10,4	9,5	11,4	12,5	11,9	20,3	12,0	24,8	12,7	31,1	13,0	37,5
5,0	500	5,10	9,0	5,8	9,9	7,7	10,4	10,4	11,7	13,2	11,9	21,6	12,3	26,3	12,9	32,8	13,2	39,5
5,5	550	5,61	9,4	6,3	10,3	7,9	10,7	11,0	11,9	14,0	11,9	22,7	12,5	27,9	13,1	34,7	13,4	41,9
6,0	600	6,12	10,1	6,9	10,6	8,7	10,9	11,5	11,9	14,8	11,9	23,8	12,7	29,3	13,3	36,4	13,8	43,9
6,5	650	6,63	10,6	7,5	10,9	9,9	11,2	12,2	12,0	15,5	12,0	24,9	12,8	30,5	13,5	38,1	14,1	45,8
7,0	700	7,14	11,0	8,0	11,3	11,1	11,6	13,0	12,2	16,0	12,2	25,9	12,8	31,6	13,7	39,6	14,4	47,5

All performance specifications are based on the stated working pressure available at the base of the sprinkler head. Radius shown in meters.

TR50XT Nozzle Performance Data @ 5° Trajectory – English $\triangleleft 5^\circ$

Base Pressure			Nozzle Sets															
			1		1.5		2		3		4.5		6		7.5		9	
PSI	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM
20	21	0.8	22	1.1	23	1.3	24	1.6	24	2.5	24	3.2	26	4.0	28	4.8		
30	22	0.9	24	1.2	26	1.6	30	2.1	30	3.3	31	4.2	31	5.2	31	6.3		
40	24	1.0	27	1.5	30	1.9	34	2.5	34	4.0	34	5.0	35	6.2	36	7.5		
50	25	1.2	30	1.6	33	2.1	37	2.8	37	4.6	38	5.7	39	7.1	39	8.6		
60	27	1.3	31	1.8	34	2.3	37	3.2	39	5.1	39	6.3	41	7.9	42	9.6		
70	29	1.5	32	2.0	34	2.7	38	3.4	39	5.6	40	6.8	42	8.5	43	10.2		
80	31	1.7	34	2.1	35	2.9	39	3.7	39	6.0	41	7.4	43	9.2	44	11.1		
90	34	1.9	35	2.4	36	3.1	39	4.0	39	6.4	42	7.9	44	9.8	46	11.8		
100	36	2.1	37	2.9	38	3.4	40	4.2	40	6.8	42	8.3	45	10.4	47	12.5		

All performance specifications are based on the stated working pressure available at the base of the sprinkler head. Radius shown in feet.

Specifying Information

TR50XX XX XX X

Description	Body	Nozzle	Optional
TR50—TR50 TR50XT—TR50XT	P—127mm (5") Lawn Pop-Up S—Shrub HP—305mm (12") High Pop-Up	10—1.0 45—4.5 15—1.5 60—6.0 20—2.0 75—7.5 30—3.0 90—9.0	E—Effluent LFLP*—Low Flow Low Pressure

For Example:
When specifying a 127mm (5") lawn pop-up TR50XT Series Sprinkler with a #3.0 nozzle, you would specify:

TR50XT-P-30



Count on it.

Toro Irrigation Products distributed by:

Lely (UK) Ltd
1, Station Road
St. Neots
Cambridgeshire
PE19 1QH

Tel: (01480) 226800

Fax: (01480) 226881

GB Form Number: LUK200-2772

©2005 The Toro Company – All Rights Reserved.

*Available soon for TR50 Lawn and High-Pop models.