

THICK-WALLED PC FLAT DRIPLINE

# TopDrip HD PC & PC AS



Innovative, cost effective, heavy duty pressure-compensating (PC) and anti-syphon (PC AS) thick-walled dripline models based on the cascade labyrinth

## APPLICATIONS

- Row crops and vegetables
- For orchards and other multi-seasonal applications
- Subsurface drip irrigation (SDI)
- Variable topography
- Irrigation of long rows with high uniformity

## STRUCTURE AND FEATURES

- Accurate pressure-compensating dripper
- Low CV: 3.0%
- Cascade labyrinth incorporated for maximal clog resistance
- Protection from root intrusion
- Unique double self-cleaning mechanism
- Large water passages for optimal durability at low flow rates
- Multiple channel water inlet for operation under heavy dirt load
- Close dripper spacing creates a continuous wetted strip

## TECHNICAL DATA

- Flow rate: 1.0, 1.6, 2.0, 2.2 l/h
- Pressure regulating range: 0.4-4.0 bar
- Operating pressure: 0.4-4.0 bar, according to wall thickness
- Wall thickness: 0.9-1.2 mm
- Recommended filtration: 130 micron (120 mesh)

### TopDrip PC



1.0, 1.6, 2.0, 2.2 l/h

### TopDrip PC AS



1.0, 1.6, 2.0, 2.2 l/h



### 3 PARTS-UPPER VIEW

Shallow profile reduces head losses  
Raised water inlet reduces clogging

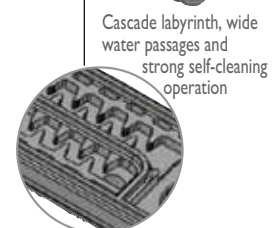
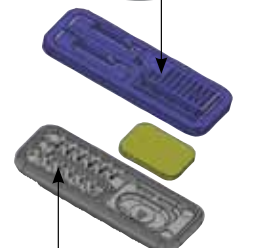
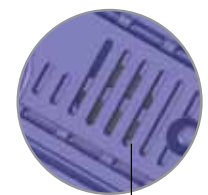


Weir design prevents root intrusion and sand suction



### 3 PARTS-BOTTOM VIEW

Multi-channel: three-dimensional water inlets and eleven independent entrances



Cascade labyrinth, wide water passages and strong self-cleaning operation

## THICK-WALLED PC FLAT DRIPLINE

# TopDrip HD PC & PC AS

### TECHNICAL DATA

Nominal diameter (mm)	Wall thickness		OD (mm)	ID (mm)	Maximum Pressure (bar)	KD	Connector type
	(mm)	(mil)					Dentados
16	0.90	35	15.70	13.9	4.0	0.575	●
	1.00	39	15.90	13.9	4.0	0.575	●
	1.15	45	16.20	13.9	4.0	0.575	●
17	0.90	35	16.20	14.4	4.0	0.48	●
	1.00	39	16.40	14.4	4.0	0.48	●
	1.20	47	17.00	14.4	4.0	0.48	●
20	1.00	39	19.70	17.70	4.0	0.35	●
	1.20	47	20.10	17.70	4.0	0.35	●



### TOPDRIP PACKAGING AND SHIPPING

#### Carton spools

Nominal diameter (mm)	Wall thickness (mm)	Standard coil length (m)	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
16	0.90	400	320	640	720
	1.00	400	320	640	720
17	0.63	600	320	640	720
	0.90	400	320	640	720
	1.00	400	320	640	720
20	0.90	300	320	640	720
	1.00	300	320	640	720



#### Coils

Nominal diameter (mm)	Wall thickness (mm)	Standard coil length (m)	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
16	0.90	500	150	320	360
	1.00	500	150	320	360
	1.15	500	150	320	360
17	0.90	500	150	320	360
	1.00	500	150	320	360
	1.20	500	150	320	360
20	1.00	300	150	345	365
	1.20	300	150	345	365



\* Dropper spacing can affect coil length.

THICK-WALLED PC FLAT DRIPLINE

# TopDrip HD PC & PC AS



## HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)

TopDrip 16, 1.0l/h, W.T 0.9-1.15mm, ID 13.9											
Lateral length (m)	Dripper spacing										
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1	
20	0.1	0.1									
40	1	0.5	0.2	0.1	0.1						
60	3.2	1.5	0.6	0.3	0.2	0.1	0.1	0.1	0.1		
80	7.4	3.5	1.3	0.7	0.4	0.3	0.2	0.1	0.1	0.1	
100	14.3	6.8	2.5	1.3	0.8	0.5	0.3	0.3	0.2	0.2	
120	24.4	11.6	4.3	2.2	1.3	0.9	0.5	0.5	0.4	0.3	
140		18.3	6.7	3.4	2	1.4	0.8	0.7	0.6	0.5	
160		27	9.9	5	3	2	1.2	1.1	0.8	0.7	
180			13.9	7	4.2	2.8	1.7	1.5	1.2	0.9	
200			18.9	9.5	5.7	3.8	2.3	2	1.6	1.3	
220			25	12.6	7.5	5	3.1	2.7	2.1	1.7	
240				16.2	9.7	6.4	3.9	3.4	2.7	2.1	
260				20.5	12.2	8.1	5	4.3	3.4	2.7	
280				25.4	15.2	10.1	6.2	5.4	4.2	3.3	
300					18.5	12.3	7.5	6.5	5.1	4.1	
320					22.3	14.8	9.1	7.9	6.1	4.9	
340					26.6	17.6	10.8	9.4	7.3	5.8	
360						20.8	12.7	11.1	8.6	6.9	
380						24.4	14.9	12.9	10.1	8	
400						28.3	17.3	15	11.7	9.3	
420							19.9	17.3	13.4	10.7	
440							22.8	19.8	15.4	12.3	
460							25.9	22.5	17.5	14	
480								25.4	19.8	15.8	
500									22.2	17.8	

TopDrip 16, 1.6l/h, W.T 0.9-1.15mm, ID 13.9											
Lateral length (m)	Dripper spacing										
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1	
20	0.3	0.2									
40	2.4	1.1	0.4	0.2	0.1						
60	7.9	3.8	1.4	0.7	0.4	0.3					
80	18.5	8.8	3.2	1.6	1	0.7	0.4	0.4	0.3	0.2	
100		16.9	6.2	3.1	1.9	1.2	0.8	0.7	0.5	0.4	
120		28.9	10.5	5.3	3.2	2.1	1.3	1.1	0.9	0.7	
140			16.5	8.3	5	3.3	2	1.8	1.4	1.1	
160			24.4	12.2	7.3	4.9	3	2.6	2	1.6	
180				17.3	10.3	6.8	4.2	3.6	2.8	2.3	
200				23.5	14	9.3	5.7	4.9	3.8	3.1	
220					18.4	12.2	7.5	6.5	5.1	4	
240					23.7	15.7	9.6	8.4	6.5	5.2	
260					30	19.8	12.1	10.5	8.2	6.5	
280						24.6	15	13	10.1	8.1	
300							18.3	15.9	12.4	9.9	
320							22.1	19.2	14.9	11.9	
340							26.3	22.8	17.7	14.2	
360								26.9	20.9	16.7	
380									24.5	19.5	
400									28.4	22.6	
420										26.1	
440											
460											
480											
500											

TopDrip 16, 2.0l/h, W.T 0.9-1.15mm, ID 13.9											
Lateral length (m)	Dripper spacing (cm)										
	0.15	20	30	40	50	60	75	80	90	100	
20	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
40	2.8	1.4	0.6	0.4	0.2	0.2	0.1	0.1	0.1	0.1	
60	9.1	4.6	1.9	1	0.7	0.5	0.3	0.3	0.2	0.2	
80	21	10.6	4.3	2.3	1.5	1	0.7	0.6	0.5	0.4	
100		20.3	8.2	4.4	2.7	1.9	1.2	1.1	0.9	0.7	
120			13.7	7.4	4.6	3.2	2	1.8	1.4	1.2	
140			21.5	11.5	7.1	4.9	3.1	2.7	2.2	1.8	
160				16.8	10.4	7.2	4.5	4	3.2	2.6	
180					23.6	14.6	10.1	7	5.6	4.4	3.6
200						19.8	13.6	8.6	7.5	6	4.8
220						26	17.9	11.3	9.9	7.9	6.3
240							22.9	14.5	12.7	10	8.1
260								18.2	16	12.6	10.2
280									22.4	19.7	15.5
300									27.4	24	19
320										22.8	18.4
340										27.1	21.9
360											25.8

TopDrip 16, 2.2l/h, W.T 0.9-1.15mm, ID 13.9											
Lateral length (m)	Dripper spacing (cm)										
	0.15	20	30	40	50	60	75	80	90	100	
20	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
40	3.4	1.7	0.7	0.4	0.3	0.2	0.1	0.1	0.1	0.1	
60	10.9	5.5	2.2	1.2	0.8	0.6	0.4	0.3	0.3	0.2	
80	25.1	12.7	5.1	2.8	1.7	1.2	0.8	0.7	0.6	0.5	
100		24.3	9.8	5.2	3.2	2.3	1.4	1.3	1	0.8	
120			16.4	8.8	5.5	3.8	2.4	2.1	1.7	1.4	
140				25.7	13.7	8.5	5.8	3.7	3.3	2.6	2.1
160					20.1	12.4	8.6	5.4	4.8	3.8	3.1
180					26.7	17.5	12	7.6	6.7	5.3	4.3
200						23.6	16.2	10.3	9	7.2	5.8
220							21.4	13.4	11.8	9.4	7.5
240								17.3	15.1	12	9.7
260									21.8	19	15
280										23.5	18.5
300											22.7
320											22

THICK-WALLED PC FLAT DRIPLINE

# TopDrip HD PC & PC AS

**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

TopDrip 17, 1.0l/h, W.T 0.9-1.2mm, ID 14.4										
Dripper spacing										
Lateral length(m)	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20	0.1									
40	0.7	0.4	0.1	0.1						
60	2.5	1.2	0.5	0.2	0.1	0.1	0.1	0.1		
80	5.7	2.8	1	0.5	0.3	0.2	0.1	0.1	0.1	0.1
100	11.1	5.3	2	1	0.6	0.4	0.3	0.2	0.2	0.1
120	18.9	9.1	3.4	1.7	1.1	0.7	0.4	0.4	0.3	0.2
140	29.8	14.3	5.3	2.7	1.6	1.1	0.7	0.6	0.5	0.4
160		21.1	7.9	4	2.4	1.6	1	0.9	0.7	0.6
180		29.9	11.1	5.6	3.4	2.3	1.4	1.2	1	0.8
200			15.1	7.7	4.6	3.1	1.9	1.7	1.3	1.1
220			19.9	10.1	6.1	4.1	2.5	2.2	1.7	1.4
240			25.6	13	7.9	5.3	3.3	2.8	2.2	1.8
260				16.5	9.9	6.6	4.1	3.6	2.8	2.2
280				20.4	12.3	8.2	5.1	4.4	3.5	2.8
300				25	15	10	6.2	5.4	4.2	3.4
320					18.1	12.1	7.5	6.5	5.1	4.1
340					21.6	14.4	8.9	7.7	6	4.9
360					25.5	17	10.5	9.1	7.1	5.7
380					19.9	12.2	10.7	8.3	6.7	
400					23.1	14.2	12.4	9.7	7.7	
420					26.5	16.3	14.2	11.1	8.9	
440						18.7	16.3	12.7	10.2	
460						21.3	18.5	14.4	11.6	
480						24	20.9	16.3	13.1	
500						27	23.5	18.4	14.7	

TopDrip 17, 1.6l/h, W.T 0.9-1.2mm, ID 14.4										
Dripper spacing										
Lateral length(m)	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20	0.2	0.1								
40	1.9	0.9	0.3	0.2	0.1	0.1				
60	6.1	3	1.1	0.6	0.3	0.2	0.1	0.1	0.1	0.1
80	14.3	6.9	2.6	1.3	0.8	0.5	0.3	0.3	0.2	0.2
100	27.6	13.2	4.9	2.5	1.5	1	0.6	0.6	0.4	0.3
120		22.6	8.4	4.3	2.6	1.7	1.1	0.9	0.7	0.6
140			13.1	6.7	4	2.7	1.7	1.5	1.1	0.9
160			19.4	9.8	5.9	4	2.5	2.1	1.7	1.3
180			27.3	13.9	8.3	5.6	3.4	3	2.4	1.9
200				18.8	11.3	7.6	4.7	4.1	3.2	2.6
220				24.9	14.9	10	6.2	5.4	4.2	3.4
240					19.2	12.8	7.9	6.9	5.4	4.3
260					24.2	16.2	10	8.7	6.8	5.4
280						20	12.3	10.7	8.4	6.7
300						24.4	15	13.1	10.2	8.2
320						29.5	18.1	15.8	12.3	9.9
340							21.6	18.8	14.7	11.7
360							25.5	22.2	17.3	13.8
380								25.9	20.2	16.2
400									23.4	18.8
420									26.9	21.6
440										24.7
460										28
480										
500										

TopDrip 17, 2.0l/h, W.T 0.9-1.2mm, ID 14.4										
Dripper spacing (cm)										
Lateral length(m)	0.15	20	30	40	50	60	75	80	90	100
20	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40	2.6	1.3	0.6	0.3	0.2	0.2	0.1	0.1	0.1	0.1
60	8.4	4.2	1.7	0.9	0.6	0.4	0.3	0.3	0.2	0.2
80	19.4	9.7	3.9	2.1	1.3	0.9	0.6	0.5	0.4	0.3
100		18.6	7.3	3.9	2.4	1.7	1.1	0.8	0.7	0.6
120			12.3	6.5	4	2.8	1.8	1.6	1.2	1
140			19.3	10.2	6.3	4.3	2.7	2.4	1.9	1.5
160				14.9	9.2	6.3	3.9	3.5	2.8	2.2
180				20.9	12.9	8.8	5.5	4.9	3.8	3.1
200					17.4	11.9	7.5	6.6	5.2	4.2
220					22.9	15.7	9.8	8.6	6.8	5.5
240						20.1	12.6	11	8.7	7
260						25.2	15.9	13.9	10.9	8.8
280							19.5	17.1	13.5	10.9
300							23.8	20.9	16.5	13.2
320								25.1	19.8	15.9
340									23.5	18.9
360										22.3



TopDrip 17, 2.2l/h, W.T 0.9-1.2mm, ID 14.4										
Dripper spacing (cm)										
Lateral length(m)	0.15	20	30	40	50	60	75	80	90	100
20	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40	3.1	1.6	0.7	0.4	0.2	0.2	0.1	0.1	0.1	0.1
60	10.1	5	2	1.1	0.7	0.5	0.3	0.3	0.2	0.2
80	23.3	11.6	4.6	2.5	1.5	1.1	0.7	0.6	0.5	0.4
100		22.2	8.8	4.6	2.9	2	1.3	1.1	0.8	0.7
120			14.7	7.8	4.8	3.3	2.1	1.8	1.5	1.2
140			23	12.1	7.5	5.1	3.3	2.8	2.3	1.8
160				17.8	11	7.5	4.7	4.1	3.3	2.6
180				25	15.4	10.5	6.6	5.8	4.6	3.7
200					20.8	14.2	9	7.8	6.2	5
220						18.7	11.7	10.3	8.1	6.5
240						24	15	13.2	10.4	8.4
260							19	16.5	13	10.5
280							23.3	20.5	16.1	13
300								24.9	19.7	15.8
320									23.6	19
340										22.6

THICK-WALLED PC FLAT DRIPLINE

# TopDrip HD PC & PC AS

**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

TopDrip 20, 1.0l/h, W.T 0.9-1.2mm, ID 17.7										
Lateral length(m)	Dripper spacing									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20										
40	0.3	0.1								
60	0.8	0.4	0.2	0.1	0.1					
80	1.9	0.9	0.4	0.2	0.1	0.1				
100	3.7	1.8	0.7	0.4	0.2	0.1	0.1	0.1	0.1	0.1
120	6.4	3.1	1.2	0.6	0.4	0.3	0.2	0.1	0.1	0.1
140	10	4.8	1.8	0.9	0.6	0.4	0.2	0.2	0.2	0.1
160	14.8	7.2	2.7	1.4	0.9	0.6	0.4	0.3	0.2	0.2
180	20.9	10.1	3.8	2	1.2	0.8	0.5	0.4	0.3	0.3
200	28.6	13.8	5.2	2.7	1.6	1.1	0.7	0.6	0.5	0.4
220		18.2	6.8	3.5	2.1	1.4	0.9	0.8	0.6	0.5
240		23.5	8.8	4.5	2.8	1.9	1.2	1	0.8	0.6
260		29.8	11.1	5.7	3.5	2.3	1.5	1.3	1	0.8
280			13.8	7.1	4.3	2.9	1.8	1.6	1.2	1
300			16.9	8.7	5.3	3.5	2.2	1.9	1.5	1.2
320			20.4	10.5	6.3	4.3	2.6	2.3	1.8	1.5
340			24.4	12.5	7.6	5.1	3.2	2.7	2.2	1.7
360			28.8	14.7	8.9	6	3.7	3.2	2.5	2
380				17.2	10.4	7	4.3	3.8	3	2.4
400				20	12.1	8.1	5	4.4	3.4	2.8
420				23	13.9	9.3	5.8	5.1	4	3.2
440				26.4	15.9	10.7	6.6	5.8	4.5	3.6
460					18.1	12.1	7.5	6.6	5.1	4.1
480					20.5	13.7	8.5	7.4	5.8	4.7
500					23.1	15.5	9.6	8.4	6.5	5.2

TopDrip 20, 1.6l/h, W.T 0.9-1.2mm, ID 17.7										
Lateral length(m)	Dripper spacing									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20	0.1									
40	0.6	0.3	0.1	0.1						
60	2.1	1.0	0.4	0.2	0.1	0.1	0.1	0.1		
80	4.8	2.3	0.9	0.5	0.3	0.2	0.1	0.1	0.1	0.1
100	9.3	4.5	1.7	0.9	0.5	0.4	0.2	0.2	0.2	0.1
120	15.8	7.7	2.9	1.5	0.9	0.6	0.4	0.3	0.3	0.2
140	25.0	12.0	4.5	2.3	1.4	1.0	0.6	0.5	0.4	0.3
160		17.8	6.7	3.4	2.1	1.4	0.9	0.8	0.6	0.5
180		25.1	9.4	4.8	2.9	2.0	1.2	1.1	0.8	0.7
200			12.8	6.5	4.0	2.7	1.7	1.5	1.1	0.9
220			16.9	8.6	5.2	3.5	2.2	1.9	1.5	1.2
240			21.7	11.1	6.7	4.5	2.8	2.4	1.9	1.5
260			27.4	14.0	8.5	5.7	3.5	3.1	2.4	1.9
280				17.4	10.5	7.0	4.4	3.8	3.0	2.4
300				21.3	12.8	8.6	5.3	4.7	3.6	2.9
320				25.6	15.5	10.4	6.4	5.6	4.4	3.5
340					18.4	12.4	7.7	6.7	5.2	4.2
360					21.8	14.6	9.0	7.9	6.2	4.9
380					25.5	17.0	10.5	9.2	7.2	5.8
400						19.8	12.2	10.7	8.3	6.7
420						22.7	14.1	12.3	9.6	7.7
440						26.0	16.1	14.0	10.9	8.8
460							18.3	15.9	12.5	10.0
480							20.7	18.0	14.1	11.3
500							23.3	20.3	15.8	12.7

TopDrip 20, 2.0l/h, W.T 0.9-1.2mm, ID 17.7										
Lateral length(m)	Dripper spacing (cm)									
	0.15	20	30	40	50	60	75	80	90	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40	1	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
60	2.9	1.6	0.7	0.4	0.3	0.2	0.1	0.1	0.1	0.1
80	6.2	3.4	1.5	0.8	0.5	0.4	0.3	0.2	0.2	0.2
100	11.2	6.1	2.7	1.5	1	0.7	0.5	0.4	0.3	0.3
120	18.2	9.9	4.3	2.4	1.5	1.1	0.7	0.6	0.5	0.4
140		15	6.5	3.7	2.3	1.6	1.1	1	0.8	0.6
160		21.6	9.4	5.3	3.4	2.4	1.5	1.4	1.1	0.8
180			12.9	7.2	4.6	3.3	2.1	1.9	1.5	1.2
200			17.2	9.7	6.2	4.3	2.8	2.5	2	1.6
220			22.3	12.5	8	5.6	3.6	3.2	2.6	2.1
240				15.9	10.2	7.1	4.6	4.1	3.2	2.6
260				19.8	12.7	8.9	5.8	5.1	4	3.3
280				24.3	15.6	10.9	7	6.2	4.9	4
300					18.8	13.2	8.5	7.5	6	4.9
320					22.5	15.7	10.2	9	7.2	5.8
340						18.6	12	10.6	8.5	6.9
360						21.8	14.1	12.4	9.9	8.1
380						25.3	16.4	14.5	11.6	9.4
400							18.9	16.7	13.3	10.8
420							21.7	19.1	15.2	12.4
440							24.7	21.7	17.3	14.1
460								24.6	19.7	16
480									22.1	18
500									24.5	20.2

TopDrip 20, 2.2l/h, W.T 0.9-1.2mm, ID 17.7										
Lateral length(m)	Dripper spacing (cm)									
	0.15	20	30	40	50	60	75	80	90	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40	1.2	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
60	3.6	1.8	0.8	0.5	0.3	0.2	0.2	0.2	0.1	0.1
80	7.2	3.9	1.7	1	0.6	0.5	0.3	0.3	0.2	0.2
100	13.1	7.1	3.1	1.7	1.1	0.8	0.5	0.5	0.4	0.3
120	21.3	11.6	5.1	2.8	1.8	1.3	0.8	0.7	0.6	0.5
140		17.7	7.7	4.3	2.8	1.9	1.3	1.1	0.9	0.7
160		25.4	11	6.2	4	2.8	1.8	1.6	1.3	1
180			15.2	8.5	5.5	3.8	2.5	2.2	1.7	1.4
200			20.3	11.4	7.3	5.1	3.3	2.9	2.3	1.9
220				14.8	9.5	6.7	4.3	3.8	3	2.5
240				18.8	12	8.4	5.4	4.8	3.8	3.1
260				23.4	15	10.5	6.8	6	4.8	3.9
280					18.4	12.9	8.3	7.3	5.8	4.8
300					22.3	15.6	10.1	8.9	7.1	5.8
320						18.6	12.1	10.6	8.5	6.9
340						22	14.2	12.6	10	8.2
360						25.9	16.7	14.7	11.7	9.6
380							19.5	17.1	13.7	11.1
400							22.4	19.8	15.8	12.8
420							25.7	22.6	18.1	14.7
440								25.8	20.5	16.7
460									23.3	19
480										21.3
500										23.9

