

MICRO LIN

Micro Flat Integral
Dripper



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MICRO LIN | Super-Small Flat Integral Dripper

Structure & Parts

Large Filter Area,
Highly Clog-Resistant

Wide Labyrinth with
Turbulent Flow



Dripper flow rates | 0.65 / 1.0 / 1.6 l/h

Dripline diameters | 12 / 16 / 22 mm

Dripline wall thickness | 0.15 - 0.4 mm

Recommended filtration | 120 mesh / 130 micron

Recommended filtration for the flow rate below 1.0 l/h | 150 mesh / 100 micron



Row crops



Greenhouses



Landscaping

MICRO LIN Features

- Highly cost-effective dripper
- Optimal choice for seasonal use
- Compact and efficient, for light tubes up to 0.4 mm wall thickness
- Short, wide labyrinth with turbulent flow - prevents particle settling
- Relatively large filter area, highly clog-resistant

MICRO LIN | Drippers Data

MICRO LIN 12

Dripline max. lateral length (m) | I.D. 11.15 mm, W.T. 0.3 mm, nominal diameter 12 mm, slope = 0%
Inlet pressure - 1.2 bar

Nominal Flow Rate (l/h)	Spacing between Drippers (cm)						
	20	30	40	50	60	75	100
0.65	81	105	127	147	165	191	230
1.0	57	75	91	105	118	136	164
1.6	43	56	68	79	88	102	123

MICRO LIN 16

Dripline max. lateral length (m) | I.D. 15.8 mm, W.T. 0.3 mm, nominal diameter 16 mm, slope = 0%
Inlet pressure - 1.2 bar

Nominal Flow Rate (l/h)	Spacing between Drippers (cm)						
	20	30	40	50	60	75	100
0.65	152	197	236	272	306	352	405
1.0	103	135	163	189	213	246	296
1.6	78	103	125	144	163	188	262

MICRO LIN 22

Dripline max. lateral length (m) | I.D. 21.2 mm, W.T. 0.3 mm, nominal diameter 22 mm, slope = 0%
Inlet pressure - 1.2 bar

Nominal Flow Rate (l/h)	Spacing between Drippers (cm)						
	20	30	40	50	60	75	100
0.65	139	182	220.4	237	287	331.5	399
1.0	103.6	135.9	164	190.5	214.2	247.5	298
1.6	76.4	100.5	121.6	141	158.4	183	221

* Customized spacing between drippers is available upon request.

MICRO LIN | Drippers Data



Technical Data

Drip Line Nominal Diameter	Inside Diameter (mm)	Wall Thickness (mm)	Minimum Working Pressure (bar)	Maximum Working Pressure (bar)	Dripper Kd
Micro Lin 12 mm	11.15	0.3 - 0.4	0.5	2.0	0.20
Micro Lin 16 mm	15.8	0.15 - 0.3	0.5	1.0 - 1.8	0.15
Micro Lin 22 mm	21.2	0.3	0.5	1.5	0.05

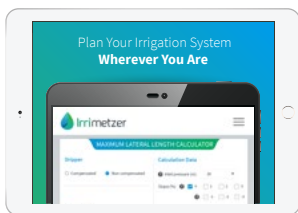
Note: max. pressure in the lateral is according to the diameter and W.T. specification.

Table for calculating flow rates vs. pressure

Based on exponential regression formula:
 $q = a \cdot P^b$

- q (l/h) - dripper flow rate
- a (unitless) - coefficient (empirical)
- P (m) - pressure
- b (unitless) - exponent (empirical)

Dripper	a - coefficient	b - exponent
Micro Lin 0.6 l/h	0.2039	0.4695
Micro Lin 1.0 l/h	0.3179	0.4975
Micro Lin 1.6 l/h	0.5494	0.4641



For more details, please visit our cutting-edge application for irrigation system design:

irrimetzer.metzer-group.com



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MICRO LIN | Transport Packaging

Narrow Drum A 18.5 cm H * 57 cm O.D. (up to 0.3 mm W.T.)



PALLET

20ft container

4 drums per layer * 6 layers + 4 drums per layer * 5 layers
Total: 44 drums

40ft HC container

4 drums per layer * 6 layers + 4 drums per layer * 6 layers
Total: 48 drums

CONTAINER

20ft container

20 pallets
Total: 440 drums

40ft HC container

40 pallets
Total: 960 drums

Narrow Drum B 22.5 cm H * 57 cm O.D. (up to 0.4 mm W.T.)



PALLET

20ft container

4 drums per layer * 9 layers
Total: 36 drums

40ft HC container

4 drums per layer * 10 layers
Total: 40 drums

CONTAINER

20ft container

10 pallets
Total: 360 drums

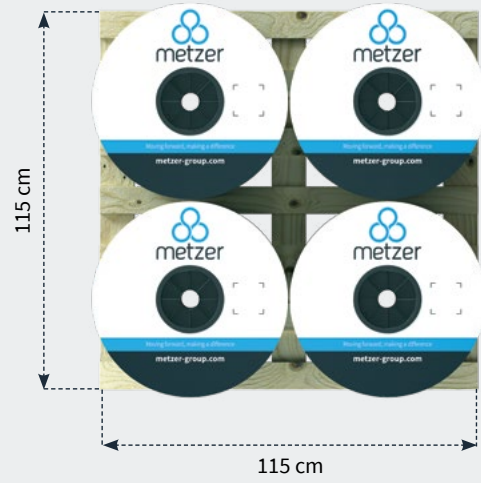
40ft HC container

22 pallets
Total: 880 drums

Dripline	Wall Thickness (mil/mm)	Length (m)			Drum Average Weight (kg)*		
		Up to 10 cm	Up to 20 cm	Above 20 cm	Up to 10 cm	Up to 20 cm	Above 20 cm
12 mm	6 / 0.15			3500 Narrow A			20
	8 / 0.2			3000 Narrow A			23
	12 / 0.3			2800 Narrow A			31
16 mm	6 / 0.15	2400 Narrow A	3200 Narrow A	3400 Narrow A	20	27	28
	8 / 0.2	1800 Narrow A	2400 Narrow A	2500 Narrow A	20	26	27
	10 / 0.25			2000 Narrow A			26
	12 / 0.3			2500 Narrow B			38
22 mm	6 / 0.15			2500 Narrow B			28
	8 / 0.2			2200 Narrow B			32
	12 / 0.3			1800 Narrow B			36
	16 / 0.4			800 Narrow B			22

* According to dripper spacing.

Narrow Drum A (up to 0.3 mm W.T.)



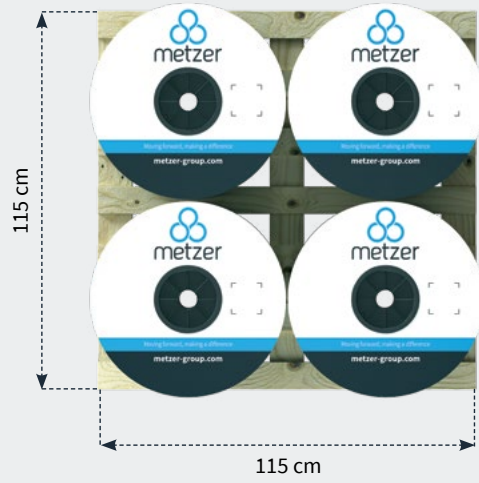
20ft Container



40ft HC Container



Narrow Drum B (up to 0.4 mm W.T.)



20ft Container



40ft HC Container



MICRO LIN | Transport Packaging

Extra Narrow Drum A 17.5 cm H * 45 cm O.D. (up to 0.3 mm W.T.)



PALLET

20ft container

5 drums per layer * 11 layers. Total: 55 drums

40ft HC container - square pallet 115 * 115 cm

5 drums per layer * 13 layers. Total: 65 drums

40ft HC container - rectangle pallet 90 * 135 cm

6 drums per layer * 13 layers. Total: 78 drums

CONTAINER

20ft container

10 pallets. Total: 550 drums

40ft HC container - square pallet 115 * 115 cm

20 pallets. Total: 1300 drums

40ft HC container - rectangle pallet 90 * 135 cm

20 pallets. Total: 1560 drums

Extra Narrow Drum B 22.5 cm H * 45 cm O.D. (up to 0.3 mm W.T.)



PALLET

20ft container

5 drums per layer * 9 layers
Total: 45 drums

40ft HC container

5 drums per layer * 10 layers
Total: 50 drums

CONTAINER

20ft container

10 pallets
Total: 450 drums

40ft HC container

20 pallets
Total: 1000 drums

Extra Narrow Drum A 17.5 cm H * 45 cm O.D.

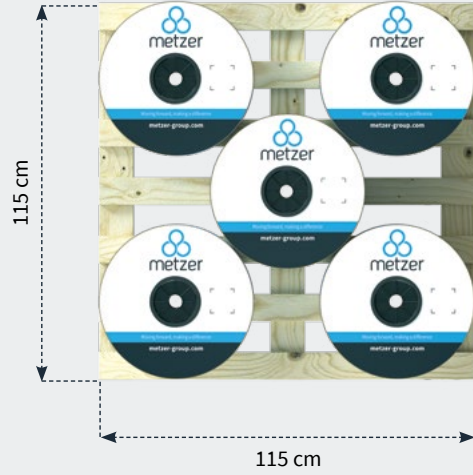
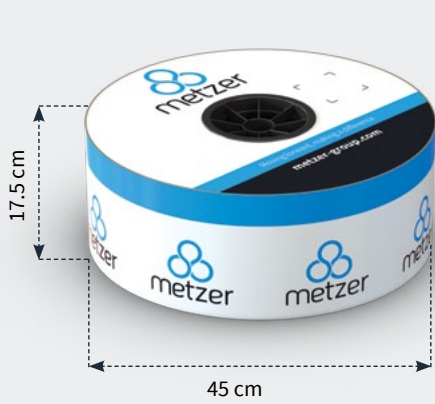
Dripline	Wall Thickness (mil/mm)	Length (m)		Drum Average Weight (kg)*	
		Up to 20 cm	Above 20 cm	Up to 20 cm	Above 20 cm
16 mm	0.15 / 6	1000	1400	9	12
	0.20 / 8	1000	1200	11	13

Extra Narrow Drum B 22.5 cm H * 45 cm O.D.

Dripline	Wall Thickness (mil/mm)	Length (m)		Drum Average Weight (kg)*	
		Up to 20 cm	Above 20 cm	Up to 20 cm	Above 20 cm
16 mm	0.15 / 6	1200	1500	11	13
	0.20 / 8	1000	1200	11	13

* According to dripper spacing.

Extra Narrow Drum A (up to 0.3 mm W.T.)



40ft HC Container

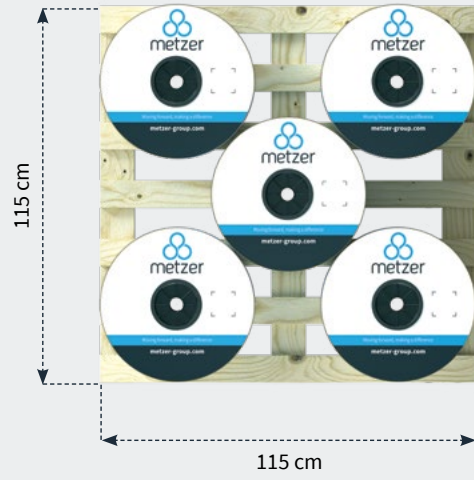
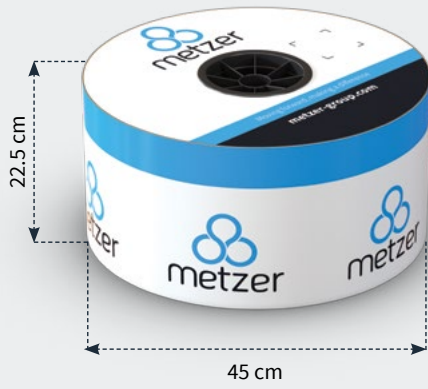
Rectangle Pallet 90 * 135 cm



Square Pallet 115 * 115 cm



Extra Narrow Drum B (up to 0.3 mm W.T.)



40ft HC Container

