

Dimensionamento

2 Formas de Dimensionar o Aspersor Low Flow

1ª - Tabelas

The image shows a screenshot of the Rain Bird website's performance charts. It displays two main tables: 'LF2000 Series Sprinkler Performance Charts - Metric Units' and 'LF2400 Series Sprinkler Performance Charts - Metric Units'. Each table lists various sprinkler models (e.g., 10" Lime, 13" Maroon, 15" Tangerine, 22" Dark Green) and provides performance data for different stream heights and nozzle sizes. The data includes Radius (m), Flow (L/hr), and other technical specifications.

2ª - Internet



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Dimensionamento

TABELAS

1. Definir a pressão de trabalho
(2,1 bar)
2. Escolher o raio de alcance
(11,3 m)
3. Escolher a vazão (420 l/h)
4. Procurar a combinação
desejada nos 3 modelos:
800, 1200 e 2400
5. Modelo escolhido:
 - LF 2400
 - Bocal: verde
 - Defletor: 22° verde escuro

LF2400 Series Sprinkler Performance Charts - Metric Units

Deflector Options	Nozzle	Performance	Metric Standard Operating Pressures and				
			1.7 Bar	2.1 Bar	2.4 Bar	3.1 Bar	3.4 Bar
10" Lime Stream Height: 61-104cm	Tan, 30 drill 2.97mm	Radius (m)	8.84	9.75	10.06	10.36	10.67
		Flow (L/hr)	447	493	534	575	606
	Red, 9/64" 3.18mm	Radius (m)	9.14	9.75	10.06	10.36	10.67
		Flow (L/hr)	509	568	613	656	697
13" Maroon Stream Height: 76-89cm	Tan, 30 drill 2.97mm	Radius (m)	9.45	9.75	10.06	10.67	10.97
		Flow (L/hr)	447	493	534	575	606
	Red, 9/64" 3.18mm	Radius (m)	9.45	10.06	10.36	10.67	10.97
		Flow (L/hr)	509	568	613	656	697
15" Tangerine Stream Height: 71-140cm	Tan, 30 drill 2.97mm	Radius (m)	9.14	10.06	10.36	10.97	10.97
		Flow (L/hr)	447	493	534	575	606
	Red, 9/64" 3.18mm	Radius (m)	9.75	10.36	10.67	11.28	11.28
		Flow (L/hr)	509	568	613	656	697
22" Dark Green Stream Height: 150-259cm	Tan, 30 drill 2.97mm	Radius (m)	10.36	10.97	11.28	11.89	11.89
		Flow (L/hr)	509	568	613	656	697
	Red, 9/64" 3.18mm	Radius (m)	10.97	11.89	12.19	12.50	12.50
		Flow (L/hr)	572	638	688	738	784
22" Dark Green Stream Height: 150-259cm	Black, 20 drill 3.38mm	Radius (m)	11.58	12.50	12.80	13.11	13.41
		Flow (L/hr)	572	638	688	738	784
	Silver, 9/64" 3.63mm	Radius (m)	11.89	12.19	13.11	13.41	13.72
		Flow (L/hr)	665	742	802	859	913

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- Impact Sprinklers
- Drip Emitters
- Micro Sprays & Spinners
- Pumps & Pump Stations
- Control Systems
- Pressure Regulators

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Manuals, Performance Data & Replacement Parts

Site Reports

Contact Information

Agricultural Irrigation Solutions

Distribution Uniformity For Sprinkler Irrigation

Distribution Uniformity (DU) is a measure of how evenly water is applied across a field during irrigation. For example, if one inch of water is applied in one part of the field and only half an inch is applied in another part of the field, that is poor DU. In short, bad DU means that either too much water is applied resulting in unnecessary expense, or too little water is applied, causing stress to crops. Better DU means more profits through cost savings, healthier crops and better yields. [Click here to read the complete article.](#)

Root Zone

New Ag Catalog Available!

Download the latest Rain Bird Agricultural Sprinkler Catalog

Uniformity Pro™

Online tool helps you select the best LF™ Series configuration for your needs.

Technical Resources

Tech tips, formulas, reference info, online calculators

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Technical Articles & Tips

Manuals, Performance Data & Replacement Parts

Site Reports

Contact Information

Rain Bird® Uniformity Pro™ for LF Series Sprinklers

Uniformity Pro is an online selection tool that helps you pick the best Rain Bird LF™ Series nozzle and deflector combination for your agricultural irrigation needs. Simply enter your spacings and watering requirements. Within seconds, Uniformity Pro will create a detailed results report with the best distribution uniformity combinations listed first.

If you are a planner, designer, or specifier, Uniformity Pro™ can be used in combination with CIT SPACE™ to create single leg profiles and densograms for your proposals and presentations.

Launch Rain Bird Uniformity Pro™.

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www.rainbird.com/ag/lfdi

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INTERNET

1º PASSO:
• Cadastrar sua empresa ou pessoa física (e-mail)
clicando em “Register! now”



LF Series Uniformity Pro

To access Search....
Sign in to LF Uniformity Pro!

Email Id:

Don't have a User Id? [Register!](#) now.

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INTERNET

2º PASSO:
. Voltar à Internet e entrar em www.rainbird.com



. Entrar com seu ID e clicar em [Login](#)

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Dimensionamento

INTERNET

VOCÊ JÁ ESTÁ NA PÁGINA DE

DIMENSIONAMENTO

DO

LOW FLOW

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LF Series Uniformity Pro - Search :: - Microsoft Internet Explorer

Arquivo Editar Exibir Favoritos Ferramentas Ajuda

Endereço: <http://www.rainbird.com/ag/LFDU/User/searchWizard.aspx>

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Search

Measurement:
Select the Measurement Unit in which you would like to have input/output.
☐ US Standard ☒ Metric

Application / Crop Type:
What application or crop are you doing this search for?
☐ Other Please specify 'Other' crop type below:
Banana Berries Citrus Tree Cooling

Head Spacing, Row Spacing, Spacing Type:
Select every option that is similar to your head spacing, row spacing, and spacing type. If you do not have a reference or don't know what your application requires, just select "All".

Head Spacing (m): ☒ All 3.60 3.90 4.20 4.50

Row Spacing (m): ☒ All 3.60 3.90 4.20 4.50

Spacing Type: ☒ All Rectangular Triangular Single Row

Concluido

1- Trabalhar com unidades métricas

LF Series Uniformity Pro - Search :: - Microsoft Internet Explorer

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Head Spacing (m): ☒ All 9.60 9.90 10.20 10.50

Row Spacing (m): ☒ All 9.60 9.90 10.20 10.50

Spacing Type: ☒ All Rectangular Triangular Single Row

2. Escolher:
- Cultura

3. Escolher:
- Espaçamento na linha
- Espaçamento entre linhas
- Tipo de espaçamento
- Retangular
- Triangular
- Linha simples

LF Series Uniformity Pro - Search - Microsoft Internet Explorer

Endereço: <http://www.rainbird.com/ag/LFPU/User/searchWizard.aspx>

Google Pesquisar

Flow Rate (lph): ☐ All ☐ Precipitation rate (mm/hr): ☐ All ☐ Nozzle: ☐ All

388 402 408 420

0.76 1.02 1.27 1.52

white blue orange purple

Deflector/Maximum Throw Height:

What is the maximum throw height you prefer? Or, what deflector do you prefer? Select only in one category.

- Use "None" if you have no preference for Max. Throw Height.

- Use "All" if you have no preference for Deflector.

☐ Deflector: ☐ Max. Throw Height above Deflector (cm): [Show Diagram](#)

☐ All

6-dark purple 10-white 10-lime 12-cyan

76 78 81 83

Pressure:

What pressure do you irrigate at? Select "all" if you are unsure.

Pressure (bars): ☐ All

1.75 2.10 2.45 2.80

Drive Unit: ☐ For experienced users only

Concluido

Microsoft PowerPoint ... LF Series Uniformit ... PT 12:35 PM

4. Escolher:

- Vazão ou
- Taxa de Precipitação ou
- Bocal

5. Escolher:

- Modelo do defletor ou
- Máxima altura de jato

6. Escolher:

- Pressão de trabalho (pressão de serviço)

LF Series Uniformity Pro - Search - Microsoft Internet Explorer

Endereço: <http://www.rainbird.com/ag/LFPU/User/searchWizard.aspx#>

Google Pesquisar

Pressure:

What pressure do you irrigate at? Select "all" if you are unsure.

Pressure (bars): ☐ All

1.75 2.10 2.45 2.80

Drive Unit: ☒ For experienced users only

Drive Unit: ☐ All

LF800 LF1200 LF2400

DU, CU, SC:

Select Minimum DU, Minimum CU and Maximum SC (5%). If you have no preference, - Use "75%" for DU, "None" for CU and "1.3" for SC (5%)

Minimum DU (%): ☐ Minimum CU (%): ☐ Maximum SC (5%): ☐

85 None None

** Depending on the selections you made, the Uniformity Pro can sometimes produce up to 200 results. How many would you like to see?

☒ 10 ☐ 20 ☐ 50 ☐ 100 ☐ 200

[See Result](#) [Reset](#)

☐ See results in a new window (pop up blockers must be disabled).

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Microsoft PowerPoint ... LF Series Uni ... LF dimensio ... PT 11:48

7. Escolher:

- Unidade Motriz (aqui recomenda-se deixar em All (todas))

8. Escolher:

- Mínimo DU ou
- Mínimo CU ou
- Máximo SC

9. Escolher:

- Número de combinações que devem aparecer no resultado

10. Clicar em See Result

LF Series Uniformity Pro - Search Result 1 - Microsoft Internet Explorer

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Endereço <http://www.rainbird.com/ag/LFPU/User/result.aspx>

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Search Result

Se não aparecerem resultados, voltar usando essa tecla

Print Report to PDF Export Back to Search

NOTE: For best results, do not use your browser's back button.

Mar 09, 2009

Search Parameters

DU Min:	75	Head Spacing:	10.20
CU Min:	None	Row Spacing:	10.20
SC Max (5%):	1.30	Deflector:	
Max Throw Height:	None	Nozzle:	
Pressure:	2.10, 2.45, 2.80	Precip Rate:	
Drive Unit:	All	Flow Rate:	402, 408, 420
Spacing Type:	All		

All results are based on Metric Units.

Showing 6 out of 6

DU (%)	CU (%)	SC (5%)	Flow Rate (lph)	Precip. Rate (mm/hr)	Spacing Type	Head Spacing (m)	Row Spacing (m)	Pressure (bars)	Nozzle	Deflector	Drive Unit	Throw Height (cm)	Radius (m)	Riser (cm)
86	90	1.20	402	3.81	Triangular	10.2	10.2	2.45	yellow	21-olive	LF1200	154	10.8	30
80	88	1.30	402	3.81	Triangular	10.2	10.2	2.45	yellow	12-cyan	LF1200	86	9.6	30
79	85	1.30	402	3.81	Triangular	10.2	10.2	2.45	yellow	17-powder blue	LF1200	127	10.5	30
78	83	1.30	402	3.81	Rectangular	10.2	10.2	2.45	yellow	12-cyan	LF1200	86	9.6	30
77	83	1.30	402	3.81	Rectangular	10.2	10.2	2.45	yellow	16-red	LF1200	119	9.9	30
76	83	1.30	420	3.05	Single Row	10.2	10.2	2.10	green	17-powder blue	LF1200	119	10.8	30

(Page 1 of 1 Pages)

Rows displaying * are estimated - based on results of similar pressures

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12:38 PM

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Search Result

Salva a pagina de resultados em PDF

Print Report to PDF Export Back to Search

NOTE: For best results, do not use your browser's back button.

Mar 09, 2009

Search Parameters

DU Min:	75	Head Spacing:	10.20
CU Min:	None	Row Spacing:	10.20
SC Max (5%):	1.30	Deflector:	
Max Throw Height:	None	Nozzle:	
Pressure:	2.10, 2.45, 2.80	Precip Rate:	
Drive Unit:	All	Flow Rate:	402, 408, 420
Spacing Type:	All		

All results are based on Metric Units.

Showing 6 out of 6

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Search Result

Imprime a pagina de resultados

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Max Throw Height:	None	Nozzle:	
Pressure:	2.10, 2.45, 2.80	Precip Rate:	
Drive Unit:	All	Flow Rate:	402, 408, 420
Spacing Type:	All		

All results are based on Metric Units. Showing 6 out of 6

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