Unirain F47 (Temporaly F46R whit counterweights)

Full Circle Impact Sprinkler
Low and Medium flow Plastic

Application

Designed for general agricultural use and, because of its low cost, it is particularly suitable for solid sets where the amount of sprinklers per hectare is high.

With reinforcements in its fundamental parts and **counterweight in the sprinkler arm** (metal inserts).

Model **F47PRO** valid for anti-frost irrigation, with **protecction 3/4" serie arm spring** for more robust and durable.

Advantages

- It features a sand-proof bearing system and reinforcing ribs on its body.
- Perfect inner finishing.
- It can be assembled with one or two nozzles. Sprinkler body accepts two different model nozzles: 3Q Bayonet & thread nozzle.
- This model allows using three different vanes can be used to achieve the desired coverage and spray balance according to the available system pressure.
- Model F47PRO: for maximum front spring protection to blows, sucidead, foreign bodies, insects, animals and frost ...

Technical specification

- Full circle impact sprinkler.
- ¾" base thread male or female(F47F)
- Main and secondary nozzle
- 23º nozzle trajectory angle
- Pressure range: 1.38 - 5.52 Bar
- Nozzle range: 7/64" (2,78mm) - 7/32" (5,56mm)
- Made of acetal resin with UV-protection treatment.
- Fulcrum pin and springs made of stainless steel.
- Expanded fulcrum pin upper end diameter for a better fitting into the sprinkler body.
- Color-coded anti abrasive acetal resin nozzles carved in millimetres and inches for a better identification.
- Backturn lock between the sprinkler body and the bearing spring.
- Sprinkler arm low flow model (F47L).
- Model F47PRO: Whit cap made of HDPE body and spring protector

To configure the sprinkler you must follow the 3 steps indicated in the chart **SET UP SPRINKLER**



Model F47

F47 F



Model F47PRO

F47PRO F

SET UP SPRINKLER	
1º Select a **MODEL**	2º Select a **VARIANT**
☐ F47	☐ Male thread
☐ F47PRO	☐ Female thread (F)
3º Select **NOZZLE CONFIGURATION** (DATA CHART)	

	Pressure (bar)	Nozzles	Vanes
HIGH	4.14	3PRN ó 3FCN	30 V
MEDIUM	2.76	3PRN ó 3FCN	WITHOUT VANE
LOW	2.10	3PRN	30RV
VERY LOW	1.38	3PRN	30BV

F46L F46	PRESSURE	NOZZLES 7/64" + 3/32"		NOZZLES 1/8" + 3/32"		NOZZLES 9/64" + 3/32"		NOZZLES 5/32" + 3/32"		NOZZLES 11/64" + 3/32"		NOZZLES 3/16" + 3/32"		NOZZLES 3/16" + 1/8"		NOZZLES 13/64" + 1/8"		NOZZLES 7/32" + 1/8"	
	(PSI)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM (*)	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)
TWO NOZZLES	20	2.71	37.1	3.18	38.1	3.74	39.0	4.31	40.7	4.96	42.0	5.66	43.3	6.65	43.3	7.47	44.9	8.33	45.9
	25	3.03	38.1	3.55	39.0	4.18	40.4	4.83	42.7	5.55	44.0	6.31	45.6	7.40	45.6	8.30	46.9	9.25	48.6
	30	3.32	38.4	3.90	40.4	4.58	42.7	5.28	44.6	6.07	45.9	6.93	47.6	8.15	47.6	9.15	48.9	10.20	50.5
	35	3.60	39.0	4.23	41.3	4.95	43.6	5.71	45.9	6.57	47.6	7.51	48.9	8.83	48.9	9.93	50.5	11.10	51.8
	40	3.85	39.4	4.53	42.0	5.29	44.6	6.11	46.9	7.03	48.6	8.03	49.9	9.46	49.9	10.65	51.5	11.90	53.1
	45	4.08	40.0	4.81	42.7	5.61	44.9	6.48	47.6	7.46	49.5	8.53	50.9	10.05	50.9	11.30	52.5	12.65	54.1
	50	4.30	40.4	5.07	43.0	5.91	45.6	6.82	47.9	7.87	49.9	9.00	51.8	10.60	51.8	11.90	53.5	13.35	55.1
	55	4.51	41.0	5.32	43.6	6.20	45.9	7.15	48.6	8.25	50.5	9.45	52.5	11.10	52.5	12.50	54.5	14.00	56.1
	60	4.71	41.3	5.56	44.0	6.48	46.6	7.47	48.9	8.60	50.9	9.86	53.1	11.60	53.1	13.00	55.1	14.50	56.4
	65	4.90	42.0	5.79	44.6	6.75	46.9	7.78	49.5	8.93	51.5	10.27	53.5	12.10	53.5	13.50	55.4	15.00	57.1
	70	5.09	42.7	6.01	44.9	7.00	47.6	8.08	49.9	9.25	51.8	10.66	54.1	12.50	54.1	14.00	56.1	15.45	57.4
	75	5.26	43.0	6.22	45.6	7.25	47.9	8.37	50.5	9.56	52.5	11.02	54.5	12.90	54.5	14.40	56.4	15.90	58.1
	80	5.43	43.0	6.42	45.9	7.49	48.6	8.65	50.9	9.87	53.1	11.36	55.1	13.25	55.1	14.80	57.1	16.30	58.4

F46LP F46P	PRESSURE	NOZZLES 7/64"		NOZZLES 1/8"		NOZZLES 9/64"		NOZZLES 5/32"		NOZZLES 11/64"		NOZZLES 3/16"		NOZZLES 13/64"		NOZZLES 7/32"	
	(PSI)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM (*)	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)
ONE NOZZLE AND PLUG	20	1.54	37.1	2.02	38.1	2.57	39.0	3.14	40.7	3.79	42.0	4.49	43.3	5.31	44.9	6.16	45.9
	25	1.73	38.1	2.25	39.0	2.88	40.4	3.52	42.7	4.24	44.0	5.00	45.6	5.90	46.9	6.85	48.6
	30	1.89	38.4	2.47	40.4	3.15	42.7	3.85	44.6	4.64	45.9	5.50	47.6	6.50	48.9	7.55	50.5
	35	2.05	39.0	2.68	41.3	3.40	43.6	4.16	45.9	5.02	47.6	5.96	48.9	7.05	50.5	8.20	51.8
	40	2.19	39.4	2.87	42.0	3.64	44.6	4.45	46.9	5.37	48.6	6.38	49.9	7.55	51.5	8.80	53.1
	45	2.32	40.0	3.05	42.7	3.86	44.9	4.72	47.6	5.70	49.5	6.78	50.9	8.00	52.5	9.35	54.1
	50	2.45	40.4	3.22	43.0	4.07	44.9	4.98	47.9	6.01	49.9	7.16	51.8	8.45	53.5	9.90	55.1
	55	2.57	41.0	3.38	43.6	4.27	45.9	5.22	48.6	6.30	50.5	7.52	52.5	8.85	54.5	10.40	56.1
	60	2.68	41.3	3.53	44.0	4.46	46.6	5.45	48.9	6.57	50.9	7.85	53.1	9.25	55.1	10.75	56.4
	65	2.79	42.0	3.68	44.6	4.65	46.9	5.68	49.5	6.83	51.5	8.18	53.5	9.60	55.4	11.10	57.1
	70	2.90	42.7	3.82	44.9	4.83	47.6	5.90	49.9	7.09	51.8	8.50	54.1	9.95	56.1	11.40	57.4
	75	3.00	43.0	3.96	45.6	5.00	47.9	6.11	50.5	7.34	52.5	8.80	54.5	10.25	56.4	11.70	58.1
	80	3.10	43.0	4.09	45.9	5.17	48.6	6.30	50.9	7.58	53.1	9.09	55.1	10.50	57.1	12.00	58.4

F46LV F46V	PRESSURE	NOZZLES 7/64" + 3/32"		NOZZLES 1/8" + 3/32"		NOZZLES 9/64" + 3/32"		NOZZLES 5/32" + 3/32"		NOZZLES 11/64" + 3/32"		NOZZLES 3/16" + 3/32"		NOZZLES 3/16" + 1/8"		NOZZLES 13/64" + 1/8"		NOZZLES 7/32" + 1/8"	
	(PSI)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM (*)	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)
TWO NOZZLES, AND VANE TO HIGH RANGE	35	3.60	40.4	4.23	42.3	4.95	44.3	5.71	46.6	6.57	48.2	7.51	50.2	8.83	50.2	9.93	52.2	11.10	54.1
	40	3.85	41.3	4.53	44.0	5.29	46.6	6.11	49.5	7.03	50.9	8.03	52.5	9.46	52.5	10.65	54.1	11.90	55.4
	45	4.08	42.0	4.81	44.6	5.61	46.9	6.48	49.9	7.46	51.8	8.53	53.5	10.05	53.5	11.30	55.1	12.65	57.1
	50	4.30	42.7	5.07	44.9	5.91	47.6	6.82	50.5	7.87	52.5	9.00	54.1	10.60	54.1	11.90	56.1	13.35	58.4
	55	4.51	43.0	5.32	45.6	6.20	47.9	7.15	50.9	8.25	53.1	9.45	54.5	11.10	54.5	12.50	57.1	14.00	59.4
	60	4.71	43.6	5.56	45.9	6.48	48.6	7.47	51.5	8.60	53.5	9.86	55.1	11.60	55.1	13.00	57.4	14.50	60.4
	65	4.90	44.0	5.79	46.6	6.75	48.9	7.78	51.8	8.93	54.1	10.27	55.4	12.10	55.4	13.50	58.1	15.00	61.0
	70	5.09	44.6	6.01	46.9	7.00	49.5	8.08	52.5	9.25	54.5	10.66	56.1	12.50	56.1	14.00	58.4	15.45	61.4
	75	5.26	44.9	6.22	47.6	7.25	49.9	8.37	53.1	9.56	55.1	11.02	56.4	12.90	56.4	14.40	59.1	15.90	62.0
	80	5.43	45.6	6.42	47.9	7.49	50.5	8.65	53.5	9.87	55.4	11.36	57.1	13.25	57.1	14.80	59.4	16.30	62.7

F46LPV F46PV	PRESSURE	NOZZLES 7/64"		NOZZLES 1/8"		NOZZLES 9/64"		NOZZLES 5/32"		NOZZLES 11/64"		NOZZLES 3/16"		NOZZLES 13/64"		NOZZLES 7/32"	
	(PSI)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM (*)	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)	GPM	R(ft)
ONE NOZZLE, PLUG AND VANE TO HIGH RANGE	35	2.05	40.4	2.68	42.3	3.40	44.3	4.16	46.6	5.02	48.2	5.96	50.2	7.05	52.2	8.20	54.1
	40	2.19	41.3	2.87	44.0	3.64	46.6	4.45	49.5	5.37	50.9	6.38	52.5	7.55	54.1	8.80	55.4
	45	2.32	42.0	3.05	44.6	3.86	46.9	4.72	49.9	5.70	51.8	6.78	53.5	8.00	55.1	9.35	57.1
	50	2.45	42.7	3.22	44.9	4.07	47.6	4.98	50.5	6.01	52.5	7.16	54.1	8.45	56.1	9.90	58.4
	55	2.57	43.0	3.38	45.6	4.27	47.9	5.22	50.9	6.30	53.1	7.52	54.5	8.85	57.1	10.40	59.4
	60	2.68	43.6	3.53	45.9	4.46	48.6	5.45	51.5	6.57	53.5	7.85	55.1	9.25	57.4	10.75	60.4
	65	2.79	44.0	3.68	46.6	4.65	48.9	5.68	51.8	6.83	54.1	8.18	55.4	9.60	58.1	11.10	61.0
	70	2.90	44.6	3.82	46.9	4.83	49.5	5.90	52.5	7.09	54.5	8.50	56.1	9.95	58.4	11.40	61.4
	75	3.00	44.9	3.96	47.6	5.00	49.9	6.11	53.1	7.34	55.1	8.80	56.4	10.25	59.1	11.70	62.0
	80	3.10	45.6	4.09	47.9	5.17	50.5	6.30	53.5	7.58	55.4	9.09	57.1	10.50	59.4	12.00	62.7

Data obtained under ideal test conditions. It can be affected by wind, bad hydraulic conditions or other adverse factors.

Data obtained under ideal test conditions. It can be affected by wind, bad hydraulic conditions or other adverse factors.
Highest point of the jet above the nozzle: 2.5 m (using standard nozzle 11 / 64 " and a pressure of 3.45 Bar)
Throw radius jets achieved with the 0.9m lift. Shaded areas not recommended.
(*) Standard Nozzle.

Due to the large number of possible combinations of nozzles, only the most common ones are represented.
To find information relating to other combinations , please advise factory.

PSI: Pounds per Square Inch
GPM: Gallons Per Minute
R(ft): Throw Radius in feet

☐ F47L ■ F47

WARRANTY AND EXCLUSIONS

The manufacturer guarantees its products for direct customer against any defects in materials or manufacture for a period of two years from the original date of purchase, only when the products have been used under normal operating conditions. The manufacturer's liability under this warranty is limited to the replacement or repair of defective parts and the manufacturer does not accept responsibility for damages to crops or any other consequential damages deriving from defects in the products covered by this warranty.

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