

# Unirain F57 (Temporary P46R PRO WITHOUT COUNTERWEIGHTS)

## Full Circle Impact Sprinkler Low and Medium flow Plastic



### Application

Like the F47, this sprinkler was designed for general agricultural use and, because of its low cost, it is suitable for solid sets where the amount of sprinklers per hectare is high.

The difference between the F57 and the F47 is the **absence of counterweights** on the arm sprinkler.

Model **F57PRO** valid for anti-frost irrigation, with **protection for arm spring** that makes it more robust and durable.

### Advantages

- Increased frequency / speed of arm swing, improving irrigation uniformity.
- It features a sand-proof bearing system and reinforcing ribs on its body.
- Perfect interior finishing.
- It can be assembled with one or two nozzles. Sprinkler body adapted to accept the 3Q bayonet nozzle and the 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.
- F57 PRO: Maximum protection of springs against impacts, dirt, foreign bodies, insects and animals, frost, etc.
- F57: **\*more economical version\***, without protective cap and without counterweights.

### Technical specification

- Full circle impact sprinkler.
- 3/4" base thread male or female (F)
- Dual nozzle, (Main and secondary nozzle)
- 23° 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.
- Body and spring protective cap made of HDPE.
- 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 acetalic resin nozzles carved in millimetres and inches for a better identification.
- Model F57PRO Bearing body protective cap made of HDPE between the sprinkler body and the compression spring.
- F57L (Low pressure model)



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

| SET UP SPRINKLER                      |  |
|---------------------------------------|--|
| 1° Select a <b>MODEL</b>              | 2° Select a <b>VARIANT</b>                 |
| <input type="checkbox"/> F57          | <input type="checkbox"/> Male thread       |
| <input type="checkbox"/> F57PRO       | <input type="checkbox"/> Female thread (F) |
| 3° Select <b>NOZZLE CONFIGURATION</b> | (DATA CHART)                               |

|          | Pressure (bar) | Nozzles     | Vanes        |
|----------|----------------|-------------|--------------|
| HIGH     | 4.14           | 3PRN 6 3FCN | 30V          |
| MEDIUM   | 2.76           | 3PRN 6 3FCN | WITHOUT VANE |
| LOW      | 2.10           | 3PRN        | 30RV         |
| VERY LOW | 1.38           | 3PRN        | 30BV         |

| F57L<br>F57 | PRESSURE<br>(Bar) | NOZZLES<br>7/64" + 3/32" |      | NOZZLES<br>1/8" + 3/32" |      | NOZZLES<br>9/64" + 3/32" |      | NOZZLES<br>5/32" + 3/32" |      | NOZZLES<br>11/64" + 3/32" |      | NOZZLES<br>3/16" + 3/32" |      | NOZZLES<br>3/16" + 1/8" |      | NOZZLES<br>13/64" + 1/8" |      | NOZZLES<br>7/32" + 1/8" |      |
|-------------|-------------------|--------------------------|------|-------------------------|------|--------------------------|------|--------------------------|------|---------------------------|------|--------------------------|------|-------------------------|------|--------------------------|------|-------------------------|------|
|             |                   | L/H                      | R(m) | L/H                     | R(m) | L/H                      | R(m) | L/H (+)                  | R(m) | L/H                       | R(m) | L/H                      | R(m) | L/H                     | R(m) | L/H                      | R(m) | L/H                     | R(m) |
| TWO NOZZLES | 1.38              | 615                      | 11.3 | 723                     | 11.6 | 849                      | 11.9 | 979                      | 12.4 | 1126                      | 12.8 | 1285                     | 13.2 | 1511                    | 13.2 | 1697                     | 13.7 | 1892                    | 14.0 |
|             | 1.72              | 688                      | 11.6 | 806                     | 11.9 | 949                      | 12.3 | 1097                     | 13.0 | 1261                      | 13.4 | 1433                     | 13.9 | 1681                    | 13.9 | 1885                     | 14.3 | 2101                    | 14.8 |
|             | 2.07              | 754                      | 11.7 | 886                     | 12.3 | 1040                     | 13.0 | 1199                     | 13.6 | 1379                      | 14.0 | 1574                     | 14.5 | 1851                    | 14.5 | 2078                     | 14.9 | 2317                    | 15.4 |
|             | 2.41              | 818                      | 11.9 | 961                     | 12.6 | 1124                     | 13.3 | 1297                     | 14.0 | 1492                      | 14.5 | 1706                     | 14.9 | 2005                    | 14.9 | 2255                     | 15.4 | 2521                    | 15.8 |
|             | 2.76              | 874                      | 12.0 | 1029                    | 12.8 | 1201                     | 13.6 | 1388                     | 14.3 | 1597                      | 14.8 | 1824                     | 15.2 | 2149                    | 15.2 | 2419                     | 15.7 | 2703                    | 16.2 |
|             | 3.10              | 927                      | 12.2 | 1092                    | 13.0 | 1274                     | 13.7 | 1472                     | 14.5 | 1694                      | 15.1 | 1937                     | 15.5 | 2283                    | 15.5 | 2566                     | 16.0 | 2873                    | 16.5 |
|             | 3.45              | 977                      | 12.3 | 1151                    | 13.1 | 1342                     | 13.9 | 1549                     | 14.6 | 1787                      | 15.2 | 2044                     | 15.8 | 2407                    | 15.8 | 2703                     | 16.3 | 3032                    | 16.8 |
|             | 3.79              | 1024                     | 12.5 | 1208                    | 13.3 | 1408                     | 14.0 | 1624                     | 14.8 | 1874                      | 15.4 | 2146                     | 16.0 | 2521                    | 16.0 | 2839                     | 16.6 | 3180                    | 17.1 |
|             | 4.14              | 1070                     | 12.6 | 1263                    | 13.4 | 1472                     | 14.2 | 1697                     | 14.9 | 1953                      | 15.5 | 2239                     | 16.2 | 2635                    | 16.2 | 2953                     | 16.8 | 3293                    | 17.2 |
|             | 4.48              | 1113                     | 12.8 | 1315                    | 13.6 | 1533                     | 14.3 | 1767                     | 15.1 | 2028                      | 15.7 | 2333                     | 16.3 | 2748                    | 16.3 | 3066                     | 16.9 | ---                     | ---  |
|             | 4.83              | 1156                     | 13.0 | 1365                    | 13.7 | 1590                     | 14.5 | 1835                     | 15.2 | 2101                      | 15.8 | 2421                     | 16.5 | 2839                    | 16.5 | 3180                     | 17.1 | ---                     | ---  |
|             | 5.17              | 1195                     | 13.1 | 1413                    | 13.9 | 1647                     | 14.6 | 1901                     | 15.4 | 2171                      | 16.0 | 2503                     | 16.6 | 2930                    | 16.6 | ---                      | ---  | ---                     | ---  |
|             | 5.52              | 1233                     | 13.1 | 1458                    | 14.0 | 1701                     | 14.8 | 1965                     | 15.5 | 2242                      | 16.2 | 2580                     | 16.8 | 3009                    | 16.8 | ---                      | ---  | ---                     | ---  |

| F57LP<br>F57P       | PRESSURE<br>(Bar) | NOZZLES<br>7/64" |      | NOZZLES<br>1/8" |      | NOZZLES<br>9/64" |      | NOZZLES<br>5/32" |      | NOZZLES<br>11/64" |      | NOZZLES<br>3/16" |      | NOZZLES<br>13/64" |      | NOZZLES<br>7/32" |      |
|---------------------|-------------------|------------------|------|-----------------|------|------------------|------|------------------|------|-------------------|------|------------------|------|-------------------|------|------------------|------|
|                     |                   | L/H              | R(m) | L/H             | R(m) | L/H              | R(m) | L/H (+)          | R(m) | L/H               | R(m) | L/H              | R(m) | L/H               | R(m) | L/H              | R(m) |
| ONE NOZZLE AND PLUG | 1.38              | 350              | 11.3 | 458             | 11.6 | 584              | 11.9 | 714              | 12.4 | 861               | 12.8 | 1020             | 13.2 | 1205              | 13.7 | 1400             | 14.0 |
|                     | 1.72              | 393              | 11.6 | 511             | 11.9 | 654              | 12.3 | 799              | 13.0 | 963               | 13.4 | 1136             | 13.9 | 1340              | 14.3 | 1556             | 14.8 |
|                     | 2.07              | 429              | 11.7 | 561             | 12.3 | 715              | 13.0 | 874              | 13.6 | 1054              | 14.0 | 1249             | 14.5 | 1476              | 14.9 | 1715             | 15.4 |
|                     | 2.41              | 466              | 11.9 | 609             | 12.6 | 772              | 13.3 | 945              | 14.0 | 1140              | 14.5 | 1354             | 14.9 | 1601              | 15.4 | 1862             | 15.8 |
|                     | 2.76              | 497              | 12.0 | 652             | 12.8 | 827              | 13.6 | 1011             | 14.3 | 1220              | 14.8 | 1449             | 15.2 | 1715              | 15.7 | 1999             | 16.2 |
|                     | 3.10              | 527              | 12.2 | 693             | 13.0 | 877              | 13.7 | 1072             | 14.5 | 1295              | 15.1 | 1540             | 15.5 | 1817              | 16.0 | 2124             | 16.5 |
|                     | 3.45              | 556              | 12.3 | 731             | 13.1 | 924              | 13.9 | 1131             | 14.6 | 1365              | 15.2 | 1626             | 15.8 | 1919              | 16.3 | 2248             | 16.8 |
|                     | 3.79              | 584              | 12.5 | 768             | 13.3 | 970              | 14.0 | 1186             | 14.8 | 1431              | 15.4 | 1708             | 16.0 | 2010              | 16.6 | 2362             | 17.1 |
|                     | 4.14              | 609              | 12.6 | 802             | 13.4 | 1013             | 14.2 | 1238             | 14.9 | 1492              | 15.5 | 1783             | 16.2 | 2101              | 16.8 | 2442             | 17.2 |
|                     | 4.48              | 634              | 12.8 | 836             | 13.6 | 1056             | 14.3 | 1290             | 15.1 | 1551              | 15.7 | 1858             | 16.3 | 2180              | 16.9 | ---              | ---  |
|                     | 4.83              | 659              | 13.0 | 868             | 13.7 | 1097             | 14.5 | 1340             | 15.2 | 1610              | 15.8 | 1931             | 16.5 | 2260              | 17.1 | ---              | ---  |
|                     | 5.17              | 681              | 13.1 | 899             | 13.9 | 1136             | 14.6 | 1388             | 15.4 | 1667              | 16.0 | 1999             | 16.6 | ---               | ---  | ---              | ---  |
|                     | 5.52              | 704              | 13.1 | 929             | 14.0 | 1174             | 14.8 | 1431             | 15.5 | 1722              | 16.2 | 2065             | 16.8 | ---               | ---  | ---              | ---  |

| F57LV<br>F57V                       | PRESSURE<br>(Bar) | NOZZLES<br>7/64" + 3/32" |      | NOZZLES<br>1/8" + 3/32" |      | NOZZLES<br>9/64" + 3/32" |      | NOZZLES<br>5/32" + 3/32" |      | NOZZLES<br>11/64" + 3/32" |      | NOZZLES<br>3/16" + 3/32" |      | NOZZLES<br>3/16" + 1/8" |      | NOZZLES<br>13/64" + 1/8" |      | NOZZLES<br>7/32" + 1/8" |      |
|-------------------------------------|-------------------|--------------------------|------|-------------------------|------|--------------------------|------|--------------------------|------|---------------------------|------|--------------------------|------|-------------------------|------|--------------------------|------|-------------------------|------|
|                                     |                   | L/H                      | R(m) | L/H                     | R(m) | L/H                      | R(m) | L/H (+)                  | R(m) | L/H                       | R(m) | L/H                      | R(m) | L/H                     | R(m) | L/H                      | R(m) | L/H                     | R(m) |
| TWO NOZZLES, AND VANE TO HIGH RANGE | 2.41              | 818                      | 12.3 | 961                     | 12.9 | 1124                     | 13.5 | 1297                     | 14.2 | 1492                      | 14.7 | 1706                     | 15.3 | 2005                    | 15.3 | 2255                     | 15.9 | 2521                    | 16.5 |
|                                     | 2.76              | 874                      | 12.6 | 1029                    | 13.4 | 1201                     | 14.2 | 1388                     | 15.1 | 1597                      | 15.5 | 1824                     | 16.0 | 2149                    | 16.0 | 2419                     | 16.5 | 2703                    | 16.9 |
|                                     | 3.10              | 927                      | 12.8 | 1092                    | 13.6 | 1274                     | 14.3 | 1472                     | 15.2 | 1694                      | 15.8 | 1937                     | 16.3 | 2283                    | 16.3 | 2566                     | 16.8 | 2873                    | 17.4 |
|                                     | 3.45              | 977                      | 13.0 | 1151                    | 13.7 | 1342                     | 14.5 | 1549                     | 15.4 | 1787                      | 16.0 | 2044                     | 16.5 | 2407                    | 16.5 | 2703                     | 17.1 | 3032                    | 17.8 |
|                                     | 3.79              | 1024                     | 13.1 | 1208                    | 13.9 | 1408                     | 14.6 | 1624                     | 15.5 | 1874                      | 16.2 | 2146                     | 16.6 | 2521                    | 16.6 | 2839                     | 17.4 | 3180                    | 18.1 |
|                                     | 4.14              | 1070                     | 13.3 | 1263                    | 14.0 | 1472                     | 14.8 | 1697                     | 15.7 | 1953                      | 16.3 | 2239                     | 16.8 | 2635                    | 16.8 | 2953                     | 17.5 | ---                     | ---  |
|                                     | 4.48              | 1113                     | 13.4 | 1315                    | 14.2 | 1533                     | 14.9 | 1767                     | 15.8 | 2028                      | 16.5 | 2333                     | 16.9 | 2748                    | 16.9 | ---                      | ---  | ---                     | ---  |
|                                     | 4.83              | 1156                     | 13.6 | 1365                    | 14.3 | 1590                     | 15.1 | 1835                     | 16.0 | 2101                      | 16.6 | 2421                     | 17.1 | 2839                    | 17.1 | ---                      | ---  | ---                     | ---  |
|                                     | 5.17              | 1195                     | 13.7 | 1413                    | 14.5 | 1647                     | 15.2 | 1901                     | 16.2 | 2171                      | 16.8 | 2503                     | 17.2 | 2930                    | 17.2 | ---                      | ---  | ---                     | ---  |
|                                     | 5.52              | 1233                     | 13.9 | 1458                    | 14.6 | 1701                     | 15.4 | 1965                     | 16.3 | 2242                      | 16.9 | 2580                     | 17.4 | 3009                    | 17.4 | ---                      | ---  | ---                     | ---  |

| F57LPV<br>F57PV                         | PRESSURE<br>(Bar) | NOZZLES<br>7/64" |      | NOZZLES<br>1/8" |      | NOZZLES<br>9/64" |      | NOZZLES<br>5/32" |      | NOZZLES<br>11/64" |      | NOZZLES<br>3/16" |      | NOZZLES<br>13/64" |      | NOZZLES<br>7/32" |      |
|---|-------------------|------------------|------|-----------------|------|------------------|------|------------------|------|-------------------|------|------------------|------|-------------------|------|------------------|------|
|   |                   | L/H              | R(m) | L/H             | R(m) | L/H              | R(m) | L/H (+)          | R(m) | L/H               | R(m) | L/H              | R(m) | L/H               | R(m) | L/H              | R(m) |
| ONE NOZZLE, PLUG AND VANE TO HIGH RANGE | 2.41              | 466              | 12.3 | 609             | 12.9 | 772              | 13.5 | 945              | 14.2 | 1140              | 14.7 | 1354             | 15.3 | 1601              | 15.9 | 1862             | 16.5 |
|   | 2.76              | 497              | 12.6 | 652             | 13.6 | 827              | 14.3 | 1011             | 15.2 | 1220              | 15.8 | 1449             | 16.2 | 1715              | 16.6 | 1999             | 17.2 |
|   | 3.10              | 527              | 12.8 | 693             | 13.7 | 877              | 14.5 | 1072             | 15.4 | 1295              | 16.0 | 1540             | 16.5 | 1817              | 17.1 | 2124             | 17.7 |
|   | 3.45              | 556              | 13.0 | 731             | 13.9 | 924              | 14.6 | 1131             | 15.5 | 1365              | 16.2 | 1626             | 16.8 | 1919              | 17.4 | 2248             | 18.1 |
|   | 3.79              | 584              | 13.1 | 768             | 14.0 | 970              | 14.8 | 1186             | 15.7 | 1431              | 16.3 | 1708             | 16.9 | 2010              | 17.7 | 2362             | 18.4 |
|   | 4.14              | 609              | 13.3 | 802             | 14.2 | 1013             | 14.9 | 1238             | 15.8 | 1492              | 16.5 | 1783             | 17.1 | 2101              | 17.8 | ---              | ---  |
|   | 4.48              | 634              | 13.4 | 836             | 14.3 | 1056             | 15.1 | 1290             | 16.0 | 1551              | 16.6 | 1858             | 17.2 | ---               | ---  | ---              | ---  |
|   | 4.83              | 659              | 13.6 | 868             | 14.5 | 1097             | 15.2 | 1340             | 16.2 | 1610              | 16.8 | 1931             | 17.4 | ---               | ---  | ---              | ---  |
|   | 5.17              | 681              | 13.7 | 899             | 14.6 | 1136             | 15.4 | 1388             | 16.3 | 1667              | 16.9 | 1999             | 17.5 | ---               | ---  | ---              | ---  |
|   | 5.52              | 704              | 13.9 | 929             | 14.8 | 1174             | 15.5 | 1431             | 16.5 | 1722              | 17.1 | 2065             | 17.7 | ---               | ---  | ---              | ---  |

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.

L/H: Liters Per Minute  
R(m): Throw Radius (meter)

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.

F57L  F57

### 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 assumes no responsibility for installation, removal or repairs carried out by unauthorised personnel. 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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No agent, employee or representative of the manufacturer is authorised to void, alter or add to the conditions contained in this warranty, nor to take responsibility for, nor to make guarantees not specified herein.