

1/4" SIZE

PRESSURE PRINCIPLE

INTERNAL MIX SET-UPS

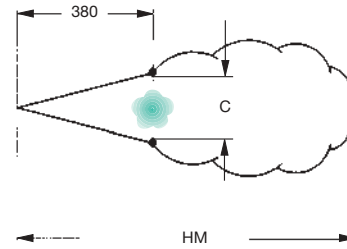
WIDE ANGLE FULL CONE SPRAY

These multi-orifice set-ups produce wide angle, full cone shaped, atomized sprays as a result from the combination of several narrow angle sprays.

The resulting encompassed spray angle is about 60° and more precise details on the spray dimensions are given in the table on the right side of the page.

The spray length can reach from 1.500 to 10.400 mm depending upon the set-up type and operating conditions.

See advice on adjustment for flow rates and droplet size given at page 8.



WH = Water capacity (l/hour)  
AM = Air capacity (NI/min)

- Materials  
 B1 AISI 303 Stainless steel  
 B3 AISI 316 Stainless steel  
 D1 PVC  
 T8 Nickel plated brass

| Set-up Code     | Air pressure (bar) |      |      |      |      |       |      |      |      |      |      |      |      |     |     |       |
|-----------------|--------------------|------|------|------|------|-------|------|------|------|------|------|------|------|-----|-----|-------|
|                 | WH                 | AM   | WH   | AM   | WH   | AM    | WH   | AM   | PA   | PL   | C    | HM   |      |     |     |       |
| <b>SUL 1640</b> | 0,6                | 5,3  | 10,2 | 1,5  | 8,1  | 16,4  | 2,4  | 8,9  | 22,0 | 3,1  | 10,5 | 24,0 | 0,7  | 0,7 | 230 | 1500  |
|                 | 0,7                | 4,3  | 12,2 | 1,8  | 6,6  | 21,0  | 2,7  | 8,1  | 26,0 | 3,4  | 9,7  | 28,0 | 1,4  | 1,5 | 240 | 1800  |
|                 | 0,9                | 3,0  | 14,2 | 2,1  | 4,9  | 25,0  | 3,0  | 6,4  | 30,0 | 3,9  | 7,8  | 36,0 | 1,8  | 2,0 | 250 | 2100  |
|                 | 1,0                | 1,7  | 17,0 | 2,4  | 3,2  | 29,0  | 3,2  | 4,9  | 34,0 | 4,2  | 6,1  | 42,0 | 3,0  | 3,0 | 260 | 2700  |
|                 | Ln XMW 5001        | -    | -    | -    | -    | -     | -    | 3,4  | 4,2  | 37,0 | 4,6  | 4,4  | 47,0 | 3,9 | 4,0 | 300   |
| An XMW 4010     | -                  | -    | -    | -    | -    | -     | 3,5  | 3,4  | 40,0 | 4,9  | 2,8  | 54,0 | -    | -   | -   | -     |
| <b>SUM 2220</b> | 0,9                | 7,0  | 50,0 | 2,0  | 18,5 | 68,0  | 2,8  | 25,0 | 84,0 | 3,7  | 31,0 | 96,0 | -    | -   | -   | -     |
|                 | 1,0                | 2,1  | 62,0 | 2,1  | 15,1 | 76,0  | 3,0  | 22,0 | 92,0 | 3,8  | 28,0 | 105  | 0,9  | 0,7 | 310 | 1800  |
|                 | -                  | -    | -    | 2,2  | 11,7 | 85,0  | 3,1  | 18,5 | 101  | 3,9  | 26,0 | 113  | 1,7  | 1,5 | 330 | 2400  |
|                 | -                  | -    | -    | -    | -    | -     | 3,2  | 15,1 | 109  | 4,1  | 23,0 | 122  | 2,1  | 2,0 | 330 | 3200  |
|                 | Ln XMW 5003        | -    | -    | -    | -    | -     | -    | 3,4  | 12,1 | 119  | 4,2  | 20,0 | 130  | 3,2 | 3,0 | 340   |
| An XMW 4011     | -                  | -    | -    | -    | -    | -     | 3,5  | 9,1  | 130  | 4,6  | 13,6 | 153  | 4,1  | 4,0 | 370 | 5900  |
| -               | -                  | -    | -    | -    | -    | -     | 3,7  | 6,1  | 142  | 4,9  | 6,8  | 183  | -    | -   | -   | -     |
| <b>SUL 2330</b> | 1,1                | 12,3 | 40,0 | 2,7  | 21,0 | 69,0  | 4,2  | 19,3 | 100  | 5,6  | 22,0 | 130  | -    | -   | -   | -     |
|                 | 1,3                | 9,9  | 45,0 | 3,0  | 16,3 | 78,0  | 4,6  | 14,6 | 113  | 6,0  | 17,6 | 142  | 1,5  | 0,7 | 230 | 2700  |
|                 | 1,4                | 7,9  | 50,0 | 3,2  | 12,3 | 86,0  | 4,9  | 10,8 | 124  | 6,3  | 14,0 | 152  | 3,0  | 1,5 | 240 | 4600  |
|                 | 1,5                | 6,1  | 54,0 | 3,4  | 10,7 | 91,0  | 5,3  | 8,1  | 135  | 6,7  | 11,4 | 163  | 3,4  | 2,0 | 240 | 5500  |
|                 | Ln XMW 5003        | 1,7  | 4,9  | 58,0 | 3,5  | 9,3   | 94,0 | 5,6  | 6,2  | 146  | 7,0  | 9,1  | 174  | 5,3 | 3,0 | 250   |
| An XMW 4013     | 1,8                | 3,9  | 62,0 | 3,9  | 6,4  | 105,0 | 6,0  | 4,9  | 157  | -    | -    | -    | 6,3  | 4,0 | 300 | 9400  |
| -               | 2,0                | 3,1  | 67,0 | 4,2  | 4,7  | 115,0 | 6,3  | 4,0  | 167  | -    | -    | -    | -    | -   | -   | -     |
| <b>SUM 2460</b> | 0,7                | 24,0 | 32,0 | 2,1  | 33,0 | 66,0  | 2,8  | 52,0 | 65,0 | 3,7  | 63,0 | 68,0 | -    | -   | -   | -     |
|                 | 0,9                | 13,6 | 44,0 | 2,2  | 26,0 | 78,0  | 3,0  | 46,0 | 76,0 | 3,8  | 58,0 | 79,0 | 0,9  | 0,7 | 360 | 2100  |
|                 | 1,0                | 7,6  | 57,0 | 2,4  | 18,9 | 89,0  | 3,1  | 39,0 | 87,0 | 3,9  | 52,0 | 101  | 1,5  | 1,5 | 370 | 3200  |
|                 | -                  | -    | -    | 2,5  | 11,7 | 100   | 3,2  | 33,0 | 99,0 | 4,2  | 41,0 | 111  | 2,4  | 2,0 | 370 | 4100  |
|                 | Ln XMW 5004        | -    | -    | -    | -    | -     | -    | 3,4  | 26,0 | 110  | 4,6  | 27,0 | 138  | 3,2 | 3,0 | 380   |
| An XMW 4011     | -                  | -    | -    | -    | -    | -     | 3,5  | 19,5 | 122  | 4,9  | 15,9 | 166  | 3,9  | 4,0 | 390 | 6800  |
| -               | -                  | -    | -    | -    | -    | -     | 3,7  | 13,2 | 133  | -    | -    | -    | -    | -   | -   | -     |
| <b>SUM 2860</b> | 1,3                | 36,0 | 85,0 | 3,1  | 53,0 | 156   | 4,2  | 64,0 | 197  | 5,6  | 74,0 | 245  | -    | -   | -   | -     |
|                 | 1,5                | 29,0 | 102  | 3,2  | 50,0 | 163   | 4,9  | 51,0 | 230  | 6,0  | 68,0 | 260  | 2,0  | 0,7 | 330 | 5500  |
|                 | 1,8                | 23,0 | 117  | 3,4  | 47,0 | 170   | 5,6  | 40,0 | 265  | 6,3  | 62,0 | 280  | 3,0  | 1,5 | 340 | 6400  |
|                 | 2,0                | 19,7 | 125  | 3,5  | 45,0 | 177   | 6,0  | 34,0 | 285  | 6,7  | 56,0 | 295  | 3,9  | 2,0 | 370 | 8200  |
|                 | Ln XMW 5004        | 2,1  | 16,7 | 133  | 3,9  | 38,0  | 194  | 6,3  | 28,0 | 300  | 7,0  | 51,0 | 315  | 6,0 | 3,0 | 380   |
| An XMW 4012     | 2,3                | 14,0 | 142  | 4,6  | 25,0 | 230   | 6,7  | 22,0 | 320  | -    | -    | -    | 6,3  | 4,0 | 410 | 10400 |
| -               | 2,4                | 11,4 | 149  | 4,9  | 18,5 | 245   | 7,0  | 17,8 | 335  | -    | -    | -    | -    | -   | -   | -     |
| <b>SUQ 3140</b> | 1,7                | 25,0 | 156  | 3,4  | 50,0 | 250   | 4,6  | 62,0 | 320  | 6,0  | 93,0 | 395  | 2,0  | 0,7 | 460 | 5500  |
|                 | 1,8                | 19,7 | 167  | 3,5  | 43,0 | 260   | 4,9  | 47,0 | 345  | 6,3  | 77,0 | 425  | 3,2  | 1,5 | 470 | 6400  |
|                 | 2,0                | 15,1 | 178  | 3,7  | 41,0 | 275   | 5,3  | 36,0 | 375  | 6,7  | 62,0 | 460  | 3,9  | 2,0 | 510 | 7300  |
|                 | 2,1                | 11,4 | 193  | 3,9  | 27,0 | 300   | 5,6  | 26,0 | 405  | 7,0  | 52,0 | 495  | 5,3  | 3,0 | 530 | 7900  |
|                 | Ln XMW 5005        | 2,3  | 7,6  | 205  | 4,1  | 23,0  | 310  | 6,0  | 18,9 | 435  | -    | -    | -    | 6,3 | 4,0 | 580   |
| An XMW 4014     | -                  | -    | -    | 4,2  | 18,9 | 320   | 6,3  | 13,6 | 460  | -    | -    | -    | -    | -   | -   | -     |
| -               | -                  | -    | -    | 4,4  | 15,9 | 335   | -    | -    | -    | -    | -    | -    | -    | -   | -   | -     |

0,7

2,0

3,0

4,0

Liquid pressure (bar)