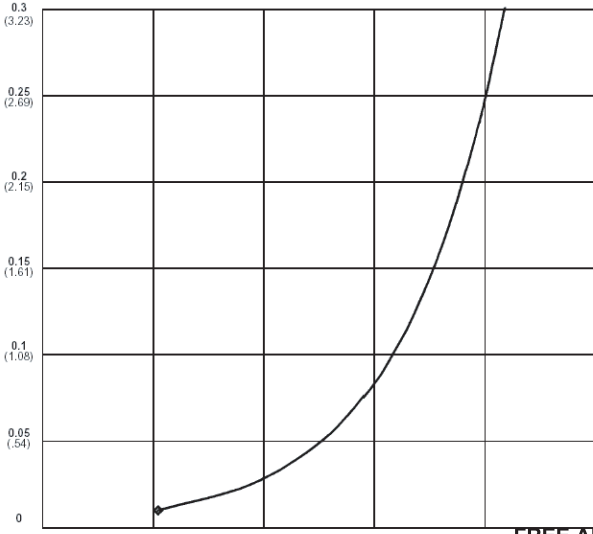


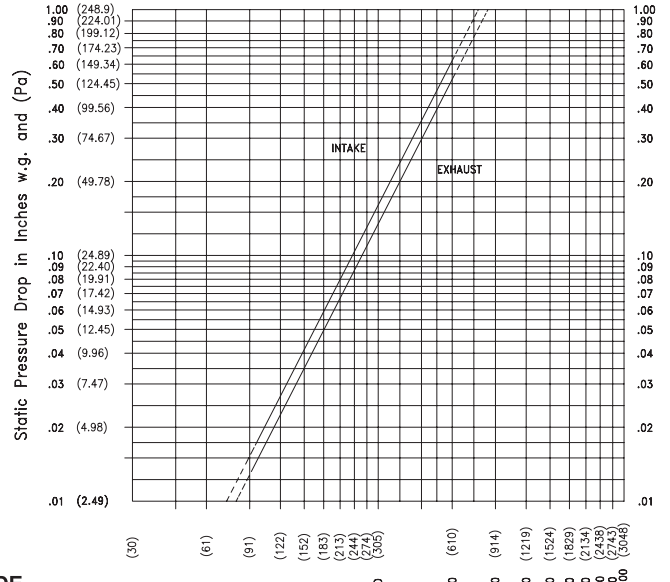
# 645 DL

**WATER PENETRATION**  
 BEGINING POINT OF WATER PENETRATION AT .01 OZ./SQ. FT.  
 IS 1023 FPM (312 M/MIN.)

OZ. WATER/FT<sup>2</sup>(ML WATER/M<sup>2</sup>) OF FREE AREA  
15 MINUTE TEST PERIOD



**PRESSURE DROP**



**FREE AREA GUIDE**  
 FREE AREA GUIDE SHOWS FREE AREA IN FT<sup>2</sup> AND M<sup>2</sup> FOR VARIOUS SIZES OF 645 DL  
 FREE AREA VELOCITY IN FEET (METERS) PER MINUTE THROUGH FREE AREA  
 AIR .075 LB/FT (1.2 KG/M ) (48" x 48" TEST SIZE)

HEIGHT - INCHES AND METERS

|      | 12   | 18   | 24   | 30    | 36    | 42    | 48    | 54    | 60    | 66    | 72    | 78    | 84    | 90    | 96    | 102   | 108   | 114   | 120   |
|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | 0.30 | 0.46 | 0.61 | 0.76  | 0.91  | 1.07  | 1.22  | 1.37  | 1.52  | 1.68  | 1.83  | 1.98  | 2.13  | 2.29  | 2.44  | 2.59  | 2.74  | 2.90  | 3.05  |
| 12   | 0.31 | 0.49 | 0.67 | 0.86  | 1.04  | 1.22  | 1.41  | 1.59  | 1.77  | 1.96  | 2.14  | 2.32  | 2.51  | 2.69  | 2.88  | 3.06  | 3.25  | 3.43  | 3.61  |
| 0.30 | 0.03 | 0.05 | 0.06 | 0.08  | 0.10  | 0.11  | 0.13  | 0.15  | 0.16  | 0.18  | 0.20  | 0.22  | 0.23  | 0.25  | 0.27  | 0.28  | 0.30  | 0.32  | 0.34  |
| 18   | 0.58 | 0.93 | 1.28 | 1.63  | 1.98  | 2.32  | 2.68  | 3.03  | 3.37  | 3.73  | 4.08  | 4.42  | 4.77  | 5.13  | 5.48  | 5.82  | 6.18  | 6.52  | 6.87  |
| 0.46 | 0.05 | 0.09 | 0.12 | 0.15  | 0.18  | 0.22  | 0.25  | 0.28  | 0.31  | 0.35  | 0.38  | 0.41  | 0.44  | 0.48  | 0.51  | 0.54  | 0.57  | 0.61  | 0.64  |
| 24   | 0.86 | 1.38 | 1.89 | 2.40  | 2.92  | 3.43  | 3.96  | 4.47  | 4.98  | 5.50  | 6.02  | 6.53  | 7.05  | 7.57  | 8.09  | 8.60  | 9.12  | 9.63  | 10.15 |
| 0.61 | 0.08 | 0.13 | 0.18 | 0.22  | 0.27  | 0.32  | 0.37  | 0.42  | 0.46  | 0.51  | 0.56  | 0.61  | 0.66  | 0.70  | 0.75  | 0.80  | 0.85  | 0.90  | 0.94  |
| 30   | 1.14 | 1.82 | 2.50 | 3.18  | 3.87  | 4.54  | 5.24  | 5.92  | 6.59  | 7.28  | 7.97  | 8.64  | 9.33  | 10.01 | 10.70 | 11.37 | 12.06 | 12.74 | 13.42 |
| 0.76 | 0.11 | 0.17 | 0.23 | 0.30  | 0.36  | 0.42  | 0.49  | 0.55  | 0.61  | 0.68  | 0.74  | 0.80  | 0.87  | 0.93  | 1.00  | 1.06  | 1.12  | 1.18  | 1.25  |
| 36   | 1.69 | 2.70 | 3.72 | 4.72  | 5.75  | 6.74  | 7.79  | 8.79  | 9.79  | 10.81 | 11.83 | 12.83 | 13.86 | 14.88 | 15.89 | 16.90 | 17.92 | 18.92 | 19.93 |
| 0.91 | 0.16 | 0.25 | 0.35 | 0.44  | 0.53  | 0.63  | 0.72  | 0.82  | 0.91  | 1.01  | 1.10  | 1.19  | 1.29  | 1.38  | 1.48  | 1.57  | 1.67  | 1.76  | 1.85  |
| 42   | 1.96 | 2.70 | 3.72 | 4.72  | 5.75  | 6.74  | 7.79  | 8.79  | 9.79  | 10.81 | 11.83 | 12.83 | 13.86 | 14.88 | 15.89 | 16.90 | 17.92 | 18.92 | 19.94 |
| 1.07 | 0.18 | 0.25 | 0.35 | 0.44  | 0.53  | 0.63  | 0.72  | 0.82  | 0.91  | 1.01  | 1.10  | 1.19  | 1.29  | 1.38  | 1.48  | 1.57  | 1.67  | 1.76  | 1.85  |
| 48   | 1.97 | 3.15 | 4.33 | 5.50  | 6.69  | 7.86  | 9.08  | 10.24 | 11.40 | 12.59 | 13.78 | 14.95 | 16.14 | 17.33 | 18.51 | 19.68 | 20.87 | 22.04 | 23.23 |
| 1.22 | 0.18 | 0.29 | 0.40 | 0.51  | 0.62  | 0.73  | 0.84  | 0.95  | 1.06  | 1.17  | 1.28  | 1.39  | 1.50  | 1.61  | 1.72  | 1.83  | 1.94  | 2.05  | 2.16  |
| 54   | 2.24 | 3.59 | 4.94 | 6.27  | 7.63  | 8.96  | 10.35 | 11.67 | 13.00 | 14.35 | 15.71 | 17.04 | 18.40 | 19.75 | 21.10 | 22.44 | 23.79 | 25.12 | 26.24 |
| 1.37 | 0.21 | 0.33 | 0.46 | 0.58  | 0.71  | 0.83  | 0.96  | 1.09  | 1.21  | 1.33  | 1.46  | 1.58  | 1.71  | 1.84  | 1.96  | 2.09  | 2.21  | 2.34  | 2.44  |
| 60   | 2.52 | 4.03 | 5.55 | 7.05  | 8.56  | 10.06 | 11.62 | 13.12 | 14.60 | 16.13 | 17.65 | 19.14 | 20.67 | 22.19 | 23.71 | 25.21 | 26.73 | 28.22 | 29.75 |
| 1.52 | 0.23 | 0.37 | 0.52 | 0.66  | 0.80  | 0.94  | 1.08  | 1.22  | 1.36  | 1.50  | 1.64  | 1.78  | 1.92  | 2.06  | 2.21  | 2.34  | 2.49  | 2.62  | 2.77  |
| 66   | 2.80 | 4.47 | 6.16 | 7.82  | 9.51  | 11.17 | 12.90 | 14.56 | 16.20 | 17.90 | 19.59 | 21.24 | 22.94 | 24.63 | 26.31 | 27.98 | 29.67 | 31.32 | 33.01 |
| 1.68 | 0.26 | 0.42 | 0.57 | 0.73  | 0.88  | 1.04  | 1.20  | 1.35  | 1.51  | 1.66  | 1.82  | 1.98  | 2.13  | 2.29  | 2.45  | 2.60  | 2.76  | 2.91  | 3.07  |
| 72   | 3.08 | 4.92 | 6.76 | 8.59  | 10.45 | 12.27 | 14.18 | 16.00 | 17.81 | 19.67 | 21.53 | 23.35 | 25.21 | 27.07 | 28.91 | 30.74 | 32.60 | 34.42 | 36.28 |
| 1.83 | 0.29 | 0.46 | 0.63 | 0.80  | 0.97  | 1.14  | 1.32  | 1.49  | 1.66  | 1.83  | 2.00  | 2.17  | 2.34  | 2.52  | 2.69  | 2.86  | 3.03  | 3.20  | 3.37  |
| 78   | 3.35 | 5.36 | 7.37 | 9.37  | 11.40 | 13.38 | 15.45 | 17.44 | 19.41 | 21.44 | 23.47 | 25.45 | 27.48 | 29.51 | 31.52 | 33.51 | 35.54 | 37.52 | 39.55 |
| 1.98 | 0.31 | 0.50 | 0.69 | 0.87  | 1.06  | 1.24  | 1.44  | 1.62  | 1.81  | 1.99  | 2.18  | 2.37  | 2.56  | 2.74  | 2.93  | 3.12  | 3.31  | 3.49  | 3.68  |
| 84   | 3.63 | 5.80 | 7.98 | 10.14 | 12.34 | 14.48 | 16.73 | 18.88 | 21.02 | 23.21 | 25.41 | 27.55 | 29.75 | 31.94 | 34.12 | 36.28 | 38.48 | 40.62 | 42.82 |
| 2.13 | 0.34 | 0.54 | 0.74 | 0.94  | 1.15  | 1.35  | 1.56  | 1.76  | 1.95  | 2.16  | 2.36  | 2.56  | 2.77  | 2.97  | 3.17  | 3.37  | 3.58  | 3.78  | 3.98  |
| 90   | 3.91 | 6.25 | 8.59 | 10.92 | 13.28 | 15.59 | 18.01 | 20.32 | 22.62 | 24.98 | 27.35 | 29.65 | 32.02 | 34.38 | 36.73 | 39.05 | 41.41 | 43.72 | 46.09 |
| 2.29 | 0.36 | 0.58 | 0.80 | 1.02  | 1.24  | 1.45  | 1.67  | 1.89  | 2.10  | 2.32  | 2.54  | 2.76  | 2.98  | 3.20  | 3.42  | 3.63  | 3.85  | 4.07  | 4.29  |

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