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**Water vapor content in the air at different temperature and RH**

| T(°C) \ RH | RH    |       |       |       |      |      |      |      |      |      |
|------------|-------|-------|-------|-------|------|------|------|------|------|------|
|            | 100%  | 90%   | 80%   | 70%   | 60%  | 50%  | 40%  | 30%  | 20%  | 10%  |
| 65         | 160.3 | 144.3 | 128.2 | 112.2 | 96.2 | 80.2 | 64.1 | 48.1 | 32.1 | 16.0 |
| 60         | 129.6 | 116.6 | 103.7 | 90.7  | 77.8 | 64.8 | 51.8 | 38.9 | 25.9 | 13.0 |
| 55         | 103.9 | 93.5  | 83.1  | 72.7  | 62.3 | 52.0 | 41.6 | 31.2 | 20.8 | 10.4 |
| 50         | 82.7  | 74.4  | 66.2  | 57.9  | 49.6 | 41.4 | 33.1 | 24.8 | 16.5 | 8.3  |
| 45         | 65.2  | 58.7  | 52.2  | 45.6  | 39.1 | 32.6 | 26.1 | 19.6 | 13.0 | 6.5  |
| 40         | 50.9  | 45.8  | 40.7  | 35.6  | 30.5 | 25.5 | 20.4 | 15.3 | 10.2 | 5.1  |
| 35         | 39.2  | 35.3  | 31.4  | 27.4  | 23.5 | 19.6 | 15.7 | 11.8 | 7.8  | 3.9  |
| 30         | 30.0  | 27.0  | 24.0  | 21.0  | 18.0 | 15.0 | 12.0 | 9.0  | 6.0  | 3.0  |
| 25         | 22.8  | 20.5  | 18.2  | 16.0  | 13.7 | 11.4 | 9.1  | 6.8  | 4.6  | 2.3  |
| 20         | 17.1  | 15.4  | 13.7  | 12.0  | 10.3 | 8.6  | 6.8  | 5.1  | 3.4  | 1.7  |
| 15         | 12.7  | 11.4  | 10.2  | 8.9   | 7.6  | 6.4  | 5.1  | 3.8  | 2.5  | 1.3  |
| 10         | 9.3   | 8.4   | 7.4   | 6.5   | 5.6  | 4.7  | 3.7  | 2.8  | 1.9  | 0.9  |
| 5          | 6.8   | 6.1   | 5.4   | 4.8   | 4.1  | 3.4  | 2.7  | 2.0  | 1.4  | 0.7  |
| 0          | 4.8   | 4.3   | 3.8   | 3.4   | 2.9  | 2.4  | 1.9  | 1.4  | 1.0  | 0.5  |
| -5         | 3.2   | 2.9   | 2.6   | 2.2   | 1.9  | 1.6  | 1.3  | 1.0  | 0.6  | 0.3  |
| -10        | 2.1   | 1.9   | 1.7   | 1.5   | 1.3  | 1.1  | 0.8  | 0.6  | 0.4  | 0.2  |
| -15        | 1.4   | 1.3   | 1.1   | 1.0   | 0.8  | 0.7  | 0.6  | 0.4  | 0.3  | 0.1  |
| -20        | 0.9   | 0.8   | 0.7   | 0.6   | 0.5  | 0.5  | 0.4  | 0.3  | 0.2  | 0.1  |

According to the above table we can calculate moisture content in the air in the containers/cartons before shipment.

Total water vapor= unoccupied space in the container\* = water vapor in every cubic meter air at relevant temperature and RH(from the table it can be found)

**Statement**

The calculation simply tells how much water vapor in the container/carton before shipment. It does not include the water vapor from other sources (such as cargo, container wood floor, pallets and the packaging material inside the container.)