



D25IT to D170IT (60hz)

Correction Factors

Inlet Temperature

Inlet Air Temperature (°F / °C)	120 / 49	140 / 60	150 / 66	160 / 71	170 / 76	180 / 82	200 / 93
Correction Factor	1.25	1.1	1	0.93	0.83	0.75	0.5

Ambient Temperature

Ambient Air Temperature (°F / °C)	80 / 27	90 / 32	95 / 35	105 / 41	110 / 44	120 / 49
Correction Factor	1.22	1.07	1	0.75	0.6	0.28

Inlet Pressure

Inlet Pressure (psig / barg)	73 / 5	87 / 6	102 / 7	116 / 8	131 / 9	145 / 10	160 / 11	174 / 12	203 / 14
Correction Factor	0.85	0.93	1	1.06	1.11	1.15	1.18	1.2	1.24

How to use the factors:

1) To determine the capacity of a dryer at non standard conditions – take the nominal rated flow and multiply by the appropriate correction factors.

Example: D60IT has nominal capacity of 60 m³/hr or 35 cfm. At an inlet temperature of 160°F, ambient temperature of 105°F and pressure of 116 psig, the new capacity of this dryer is 60 x .93 x .75 x 1.06 = 44 m³/hr or 26 cfm

2) To select a dryer basis system flow – take the required system flow and divide by the appropriate factors.

Example: Requirement is 46 m³/min (or 27 cfm) at inlet temperature of 140°F, ambient temperature of 90°F and pressure of 8 barg. The corrected flow will be 46 / 1.1 / 1.07 / 1.06 = 37 m³/hr or 22 cfm. Select the closest dryer rated above 37: choose the D42IT.

Note: Correction factors are to be used for general sizing guidance. Dryer performance is guaranteed at nominal rating only.