



Non-Cycling REFRIGERATED AIR DRYERS

Point of Manufacture – West Chester, PA, USA

Date: January 15, 2009
Revision 1

CORRECTION FACTORS

Multiplication Factors for Ambient Temperatures

°F	80	90	100	110	120
Correction Factor	1.25	1.12	1.00	0.86	0.77

Multiplication Factors for Working Pressure

Pressure Psig	50	75	100	125	150	225
Correction Factor	0.78	0.91	1.00	1.08	1.16	1.22

Multiplication Factors for Inlet Temperatures

°F	80	90	100	110	120
Correction Factor	1.64	1.27	1.00	0.81	0.66

HOW TO APPLY THE CORRECTION FACTORS

Select the following dryer using the sizing chart:

Ambient temperature (°F)	80 °F	1.25
Working pressure (psig)	125 psig	1.08
Inlet temperature (°F)	100 °F	1.00

Customer air flow rate 700 scfm

Required Dryer Capacity = Customer air flow rate / (Ambient Factor x Pressure Factor x Inlet Factor)
 Required Dryer Capacity = 700 / (1.25 x 1.00 x 1.08) = 519 scfm (882 Nm³/hr)

Selected Dryer = D1020INxxxx

Note: SCFM * 1.7 = Nm³/hr