



CORRECTION FACTORS

High Pressure Cycling Refrigerated Air Dryers

Point of Manufacture – West Chester, PA, USA

Date: November, 2008
Revision 0

Inlet Pressure Correction Factor

Inlet Pressure (psig)	350	400	450	500	580	650
Correction Factor	0.94	0.95	0.97	0.98	1	1.01

Inlet Temperature Correction Factor

Inlet Temperature (°F)	70	80	90	100	105	110	115	120
Correction Factor	1.83	1.44	1.21	1	0.92	0.86	0.80	0.74

Condenser Inlet Water Temperature Correction Factor

Inlet Pressure (°F)	70	80	85	90	95
Correction Factor	1	1	1	0.92	0.88

HOW TO APPLY THE CORRECTION FACTORS

Select the following dryer using the sizing chart:

Inlet Pressure Correction	500 psig	0.98
Inlet temperature (°F)	105 °F	0.92
Water Temperature (°F)	80 °F	1.00

Customer air flow rate 1400 scfm

Dryer Capacity = Customer air flow rate / (Inlet Pressure Correction Factor x Inlet Temp Correction Factor x Inlet Water Correction Factor)

Dryer Capacity Required = 1400 SCFM / (0.98 X 0.92 X 1.00) = 1553 SCFM = 2638 m3/hr

Selected Dryer = D2770NC-HP