

D-Series

ultra-high purity
compressed air dryers

Flow Correction Factors

D¹⁺²

Model Flow Rates

Model	Flow Rate	
	Inlet	Outlet*
	Nm ³ /hr (scfm) [Nlt/min]	
NDL-010	5.1 (3) [85]	4.1 (2.4) [68]
NDL-020	8.5 (5) [142]	6.8 (4) [113]
NDL-030	17 (10) [283]	13.6 (8) [227]
NDL-040	25.5 (15) [425]	20 (12) [340]
NDL-050	40.8 (24) [680]	32.6 (19.2) [544]
NDL-060	59 (35) [991]	47.2 (28) [793]
NDL-070	72 (42) [1189]	57.6 (33.6) [952]
NDL-080	91 (54) [1529]	72.8 (43.2) [1224]
NDL-090	115 (67.5) [1911]	92 (54) [1530]
NDL-100	153 (90) [2548]	122.4 (72) [2040]
NDL-110	183 (108) [3058]	146.4 (86.4) [2448]
NDL-120	229 (135) [3823]	183.2 (108) [5060]
NDL-130	306 (180) [5097]	244.8 (144) [4080]



* Includes 15% average purge loss.

D ¹	NDL-010 - NDL-050	Pressure Correction Factor (CFP)	Min Inlet Pressure (barg)	4	5	6	7	8	9	10	11	12				
			Min Inlet Pressure (psig)	58	73	87	102	116	131	145	160	174				
			Correction Factor (CFP)	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.5	1.63				
D ¹ <td rowspan="3">NDL-010 - NDL-050 <td rowspan="3">Temperature Correction Factor (CFT)</td> <td>Max Temperature Inlet (°C)</td> <td>25</td><td>35</td><td>40</td><td>45</td><td>50</td> </td>	NDL-010 - NDL-050 <td rowspan="3">Temperature Correction Factor (CFT)</td> <td>Max Temperature Inlet (°C)</td> <td>25</td> <td>35</td> <td>40</td> <td>45</td> <td>50</td>	Temperature Correction Factor (CFT)	Max Temperature Inlet (°C)	25	35	40	45	50								
			Max Temperature Inlet (°F)	77	95	104	113	122								
			Correction Factor (CFT)	1	1	0.97	0.88	0.73								
D ¹ <td rowspan="3">NDL-010 - NDL-050 <td rowspan="3">Dewpoint Correction Factor (CFD)</td> <td rowspan="3">Required Dewpoint</td> <td>PDP (°C)</td> <td>-20</td><td>-40</td><td>-70</td> </td>	NDL-010 - NDL-050 <td rowspan="3">Dewpoint Correction Factor (CFD)</td> <td rowspan="3">Required Dewpoint</td> <td>PDP (°C)</td> <td>-20</td> <td>-40</td> <td>-70</td>	Dewpoint Correction Factor (CFD)	Required Dewpoint	PDP (°C)	-20	-40	-70									
				PDP (°F)	-4	-40	-94									
				CFD	0.91	1	1.43									
D ² <td rowspan="3">NDL-060 - NDL-130 <td rowspan="3">Pressure Correction Factor (CFP)</td> <td>Min Inlet Pressure (barg)</td> <td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td> </td>	NDL-060 - NDL-130 <td rowspan="3">Pressure Correction Factor (CFP)</td> <td>Min Inlet Pressure (barg)</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td>	Pressure Correction Factor (CFP)	Min Inlet Pressure (barg)	4	5	6	7	8	9	10	11	12	13	14	15	16
			Min Inlet Pressure (psig)	58	73	87	102	116	131	145	160	174	189	203	218	232
			Correction Factor (CFP)	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13
D ² <td rowspan="3">NDL-060 - NDL-130 <td rowspan="3">Temperature Correction Factor (CFT)</td> <td>Max Temperature Inlet (°C)</td> <td>25</td><td>35</td><td>40</td><td>45</td><td>50</td> </td>	NDL-060 - NDL-130 <td rowspan="3">Temperature Correction Factor (CFT)</td> <td>Max Temperature Inlet (°C)</td> <td>25</td> <td>35</td> <td>40</td> <td>45</td> <td>50</td>	Temperature Correction Factor (CFT)	Max Temperature Inlet (°C)	25	35	40	45	50								
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$$\left(\frac{\text{Required Inlet Flow}}{\text{CFP} \times \text{CFT}} \right) \times \text{CFD} = \text{Dryer Capacity Requirements}$$

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Note: Nominal sizing values are indicated by the data in the light blue tinted boxes above.