



BD210WLP Series Dehydrators

Max Capacity 200 SCFD (238L/h), Output Pressure 0.3 to 7.5 PSI (2.1 to 51.7 KPa) Field Adjustable, Single Pressure Outlet, with Real-Time Remote Management, Support Rack and Wall Mount

PRODUCT DESCRIPTION

The dehydrator removes the moisture from damp ambient air to deliver a reliable, constant, on-demand source of dry and pressurised air, which is critical to prevent the systems from performance and reliability degradation by condensation.

The BD210WLP series dehydrators offer pressurization solutions to transmission lines and antennas in both telecom and broadcasting applications. Its low pressure operation (suffix LP) makes it suitable for applications where reduced pressure is required, for example, pressurisation of broadcast antenna radomes, microwave waveguides and other transmission lines.

The inherent reliability, compact size and remote real-time data capabilities make the BD210WLP series dehydrators an ideal choice for pressurisation of unattended sites.

The BD210WLP Series dehydrators employ a fully digital operating platform offering the most accurate readings of operating variables, either from the front panel or by a remote IP connection.



BD210WLP / BD212WLP



BD210WLP-V / BD212WLP-V

FEATURES / BENEFITS

- Air Delivery up to 200 SCFD (236L/h)
- Available in 110VAC, 220VAC and 48VDC (by an Optional Inverter) power supply
- Remote Real-time Data and Alarm Reset Capabilities
- SNMP Communication Compatible
- Digital Display of all Operating Parameters
- Compact & Lightweight
- Ultra Quiet Swing-Piston Compressor
- Versatile Mounting & Installation Options
- Operating pressure can be changed by a simple adjustment at the dehydrator
- Easy Slide Rail Mounting Kit Included (not with BD210WLP-V)
- Vertical Wall Mount Bracket Included with BD210WLP-V ONLY

DETAILS

| | |
|---------------------|----------------------|
| Product Type | Automatic Dehydrator |
|---------------------|----------------------|



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SPECIFICATIONS

| | | BD210WLP / BD210WLP-V | BD212WLP / BD212WLP-V |
|--|---------------|--|--------------------------|
| Output Capacity | l/hr (SCFD) | 236 (200) @ 100% Duty Cycle | |
| Power Requirements | | 110 - 125 VAC, 50 / 60Hz | 208 - 253 VAC, 50 / 60Hz |
| Operating Current | A | 1 | 0.5 |
| Outlet Pressure Range | kPa (PSIG) | 2.1 - 51.7 (0.3 - 7.5) | |
| Outlet Air Relative Humidity | | Less than 2% RH. Less than -40°F/C Dewpoint | |
| Compressor Type | | Oil-less Piston Type | |
| Dehydrating Method | | Heatless Desiccant | |
| Environment Operating Temperature Range | °C (°F) | 5°-30° (40°-85°) Ambient | |
| Noise Level at 3m (10 ft) | dBA | 48 | |
| Alarms | | Low pressure, High pressure, Humidity, Excess run-time, High duty circle, High internal temperature, and Maitenance reminder | |
| Outlet Connections | | 3/8" Press-to-Lock tube fitting | |
| Dimensions | | 49.3 x 41.0 x 17.2 (19.39 x 16.13 x 6.75) | |
| Depth x Width x Height | cm (in) | *BD210WLP-V mounted 17.2 x 41.0 x 49.3 (6.75 x 16.13 x 19.39) | |
| Weight | kg (lb) | 19 (42) | |
| Network Management | | via Web Browser or SNMP through RJ-45 Ethernet Connection | |



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ACCESSORIES

| Description | | Model |
|---|----------|----------|
| 12 Month Maintenance Kit | | P017612 |
| Wall Mounting Kit (BD210/212 Only) | | P017460 |
| Rack Mounting Kit (BD210/212 Only) | | P017703 |
| 48VDC-120VAC Inv Kit-Unit Mount (All BD210) | | P017435 |
| 48VDC-230VAC Inv Kit-Unit Mnt (All BD212) | | P017436 |
| 48VDC-120VAC Inv Kit-Rack Mnt (All BD210) | | P017437 |
| 48VDC-230VAC Inv Kit-Rack Mnt (All BD212) | | P017436 |
| Dehydrator Start-up kit (without manifold) | [Note 1] | GLK-1 |
| 2-Port Manifold with Pressure Gauges | | PWM2G |
| 2-Port Manifold with Pressure Gauges & Check Valves | [Note 2] | PWM2GC |
| 2-Port Manifold Start-Up Kit | [Note 3] | MLK-2 |
| 4-Port Manifold with Pressure Gauges | | PWM4G |
| 4-Port Manifold with Pressure Gauges & Check Valves | [Note 2] | PWM4GC |
| 4-Port Manifold Start-Up Kit | [Note 3] | MLK-4 |
| 8-Port Manifold with Pressure Gauges | | PWM8G |
| 8-Port Manifold with Pressure Gauges & Check Valves | [Note 2] | PWM8GC |
| 8-Port Manifold Start-Up Kit | [Note 3] | MLK-8 |
| Single Pipe Panel | | P8741SFM |
| Dual Pipe Panel | | P8741DFM |
| 10-Lines Flow Distribution Panel | | PFMP2310 |

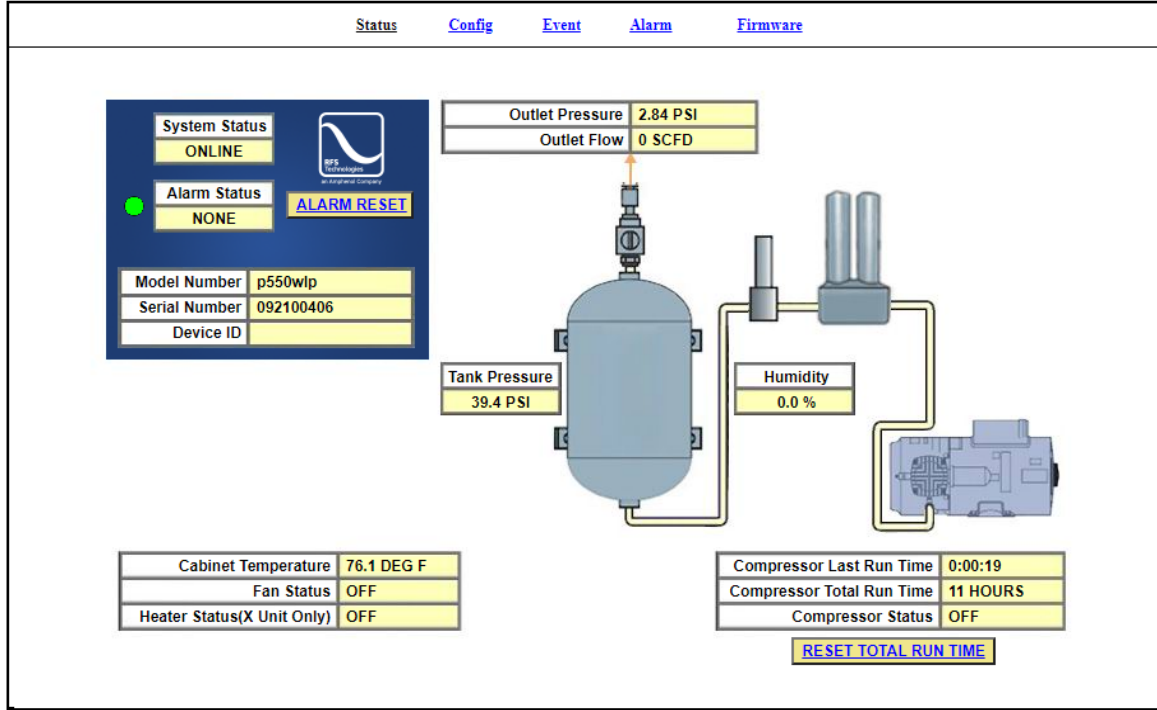
Note:

1. GLK-1 Kit contains fittings and valves of a single line 3/8" tubing system. It includes 1/8 NPT Gas inlet port for RF connector, Street Tee, Ball Valve, 0-15 PSI Gauge, 50' of 3/8" tube, Teflon tape and other valves, A 1/2" to 3/8" adaptor is also included for BD4200 and BD8400 series.
 2. Manifold units with check valves are not recommended for pressurising antennas with dual feedlines.
 3. MLK Kit works with corresponding PWM manifold to distribute gases to multiply lines through 3/8" tubing system.
- For details of accessories, refer separate datasheet.



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Screen image showing remote display of dehydrator status and alarms



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| Dehydrator Sizing Chart | Model | BD210W Series | BD550W Series | BD1500W Series | BD4200W Series | BD8400W Series |
|-------------------------|-----------------------------------|-----------------------------------|---------------|----------------|----------------|----------------|
| Altitude (Feet) | Max Flow (SCFM) | 0.14 | 0.38 | 1.04 | 2.92 | 5.83 |
| Sea Level | Max Flow (SCFD) | 200 | 550 | 1500 | 4200 | 8400 |
| 1.00 | Max Volume (FT ³) | 70 | 192 | 525 | 1469 | 2938 |
| | Cross Area (FT ² / FT) | Estimated Max Length of Line (FT) | | | | |
| HCA38 3/8" Coaxial | 0.0012 | 60,830 | 167,285 | 456,232 | 1,277,449 | 2,554,899 |
| HCA12 1/2" Coaxial | 0.0014 | 48,580 | 133,595 | 364,351 | 1,020,185 | 2,040,371 |
| HCA58 5/8" Coaxial | 0.0027 | 25,718 | 70,727 | 192,892 | 540,098 | 1,080,196 |
| HCA78 7/8" Coaxial | 0.0048 | 14,543 | 39,995 | 109,078 | 305,419 | 610,838 |
| HCA118 1-1/8" Coaxial | 0.0081 | 8,636 | 23,750 | 64,773 | 181,366 | 362,732 |
| HCA158 1-5/8" Coaxial | 0.0154 | 4,542 | 12,492 | 34,069 | 95,393 | 190,787 |
| HCA214 2-1/4" Coaxial | 0.0227 | 3,081 | 8,474 | 23,113 | 64,716 | 129,433 |
| HCA300 3" Coaxial | 0.0371 | 1,885 | 5,185 | 14,141 | 39,597 | 79,195 |
| HCA400 4" Coaxial | 0.0516 | 1,355 | 3,728 | 10,167 | 28,470 | 56,940 |
| HCA495 5" Coaxial | 0.0839 | 833 | 2,292 | 6,253 | 17,509 | 35,019 |
| HCA550 5-1/2" Coaxial | 0.1380 | 506 | 1,394 | 3,801 | 10,645 | 21,290 |
| HCA618 6-1/8" Coaxial | 0.1840 | 380 | 1,045 | 2,851 | 7,984 | 15,968 |
| HCA800 8" Coaxial | 0.3250 | 215 | 591 | 1,614 | 4,520 | 9,040 |
| HCA900 9" Coaxial | 0.4320 | 161 | 445 | 1,214 | 3,400 | 6,801 |
| 1-5/8" Rigid Coaxial | 0.0103 | 6,791 | 18,677 | 50,938 | 142,627 | 285,255 |
| 3-1/8" Rigid Coaxial | 0.0405 | 1,727 | 4,750 | 12,954 | 36,273 | 72,546 |
| 4-1/16" Rigid Coaxial | 0.0685 | 1,021 | 2,808 | 7,659 | 21,446 | 42,892 |
| 6-1/8" Rigid Coaxial | 0.1580 | 442 | 1,217 | 3,320 | 9,297 | 18,595 |
| 7-3/16" Rigid Coaxial | 0.2450 | 285 | 785 | 2,141 | 5,996 | 11,992 |
| 8-3/16" Rigid Coaxial | 0.3200 | 218 | 601 | 1,639 | 4,590 | 9,181 |
| 9-3/16" Rigid Coaxial | 0.3580 | 195 | 537 | 1,465 | 4,103 | 8,207 |
| E 30 Waveguide | 0.0457 | 1,529 | 4,205 | 11,468 | 32,113 | 64,226 |
| E 38 Waveguide | 0.0252 | 2,777 | 7,637 | 20,830 | 58,325 | 116,650 |
| ES 46 Waveguide | 0.0170 | 4,113 | 11,311 | 30,850 | 86,380 | 172,760 |
| E 46 Waveguide | 0.0181 | 3,868 | 10,638 | 29,013 | 81,238 | 162,477 |
| E 58 Waveguide | 0.0116 | 6,017 | 16,548 | 45,132 | 126,371 | 252,742 |
| E 60 Waveguide | 0.0110 | 6,371 | 17,522 | 47,787 | 133,804 | 267,609 |
| E 65 Waveguide | 0.0089 | 7,830 | 21,533 | 58,726 | 164,434 | 328,869 |
| E 70 Waveguide | 0.0078 | 9,026 | 24,822 | 67,698 | 189,556 | 379,113 |
| E 78 Waveguide | 0.0065 | 10,831 | 29,787 | 81,238 | 227,468 | 454,936 |
| E 100 Waveguide | 0.0041 | 17,102 | 47,032 | 128,271 | 359,160 | 718,320 |
| E 105 Waveguide | 0.0033 | 20,964 | 57,653 | 157,236 | 440,261 | 880,522 |
| E 130 Waveguide | 0.0026 | 27,079 | 74,468 | 203,096 | 568,670 | 1,137,341 |
| E 150 Waveguide | 0.0019 | 36,106 | 99,291 | 270,795 | 758,227 | 1,516,454 |
| E 185 Waveguide | 0.0012 | 59,082 | 162,477 | 443,119 | 1,240,735 | 2,481,471 |
| E 220 Waveguide | 0.0009 | 81,238 | 223,406 | 609,289 | 1,706,011 | 3,412,023 |
| E 250 Waveguide | 0.0006 | 108,318 | 297,875 | 812,386 | 2,274,682 | 4,549,364 |
| E 380 Waveguide | 0.0003 | 216,636 | 595,750 | 1,624,773 | 4,549,364 | 9,098,729 |

Dehydrator Capacity Chart in Imperial Units



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| Dehydrator Sizing Chart | Model | BD210W Series | BD550W Series | BD1500W Series | BD4200W Series | BD8400W Series |
|-------------------------|-------------------------------|----------------------------------|---------------|----------------|----------------|----------------|
| Altitude (meters) | Max Flow (SCMM) | 0.0040 | 0.0108 | 0.0295 | 0.0826 | 0.1653 |
| Sea Level | Max Flow (SCMD) | 5.7 | 15.6 | 42.5 | 119 | 238 |
| 1.00 | Max Volume (m ³) | 1,993 | 5,455 | 14,863 | 41,615 | 83,230 |
| | Max Volume (cm ³) | 1,993,335 | 5,455,443 | 14,862,584 | 41,615,235 | 83,230,470 |
| | Max Volume (l) | 1,993 | 5,455 | 14,863 | 41,615 | 83,230 |
| | Cross Area (l/m) | Estimated Max Length of Line (m) | | | | |
| HCA38 3/8" Coaxial | 0.107 | 18,657 | 51,062 | 139,112 | 389,514 | 779,029 |
| HCA12 1/2" Coaxial | 0.134 | 14,900 | 40,779 | 111,096 | 311,070 | 622,141 |
| HCA58 5/8" Coaxial | 0.253 | 7,888 | 21,588 | 58,815 | 164,684 | 329,369 |
| HCA78 7/8" Coaxial | 0.447 | 4,460 | 12,208 | 33,259 | 93,127 | 186,254 |
| HCA118 1-1/8" Coaxial | 0.753 | 2,648 | 7,249 | 19,750 | 55,301 | 110,603 |
| HCA158 1-5/8" Coaxial | 1.431 | 1,393 | 3,813 | 10,388 | 29,087 | 58,174 |
| HCA214 2-1/4" Coaxial | 2.109 | 945 | 2,586 | 7,047 | 19,733 | 39,466 |
| HCA300 3" Coaxial | 3.447 | 578 | 1,582 | 4,312 | 12,073 | 24,147 |
| HCA400 4" Coaxial | 4.794 | 415 | 1,138 | 3,100 | 8,681 | 17,362 |
| HCA495 5" Coaxial | 7.795 | 255 | 699 | 1,906 | 5,339 | 10,678 |
| HCA550 5-1/2" Coaxial | 12.821 | 155 | 425 | 1,159 | 3,245 | 6,491 |
| HCA618 6-1/8" Coaxial | 17.094 | 116 | 319 | 869 | 2,434 | 4,868 |
| HCA800 8" Coaxial | 30.194 | 66 | 180 | 492 | 1,378 | 2,756 |
| HCA900 9" Coaxial | 40.134 | 49 | 135 | 370 | 1,036 | 2,073 |
| 1-5/8" Rigid Coaxial | 0.957 | 2,083 | 5,701 | 15,531 | 43,489 | 86,979 |
| 3-1/8" Rigid Coaxial | 3.763 | 529 | 1,449 | 3,950 | 11,060 | 22,120 |
| 4-1/16" Rigid Coaxial | 6.364 | 313 | 857 | 2,335 | 6,539 | 13,078 |
| 6-1/8" Rigid Coaxial | 14.679 | 135 | 371 | 1,012 | 2,835 | 5,670 |
| 7-3/16" Rigid Coaxial | 22.761 | 87 | 239 | 652 | 1,828 | 3,656 |
| 8-3/16" Rigid Coaxial | 29.729 | 67 | 183 | 499 | 1,399 | 2,799 |
| 9-3/16" Rigid Coaxial | 33.259 | 59 | 164 | 446 | 1,251 | 2,502 |
| E 30 Waveguide | 4.250 | 469 | 1,283 | 3,497 | 9,791 | 19,583 |
| E 38 Waveguide | 2.340 | 851 | 2,331 | 6,351 | 17,784 | 35,568 |
| ES 46 Waveguide | 1.580 | 1,261 | 3,452 | 9,406 | 26,338 | 52,677 |
| E 46 Waveguide | 1.680 | 1,186 | 3,247 | 8,846 | 24,770 | 49,541 |
| E 58 Waveguide | 1.080 | 1,845 | 5,051 | 13,761 | 38,532 | 77,065 |
| E 60 Waveguide | 1.020 | 1,954 | 5,348 | 14,571 | 40,799 | 81,598 |
| E 65 Waveguide | 0.830 | 2,401 | 6,572 | 17,906 | 50,138 | 100,277 |
| E 70 Waveguide | 0.720 | 2,768 | 7,577 | 20,642 | 57,798 | 115,597 |
| E 78 Waveguide | 0.600 | 3,322 | 9,092 | 24,770 | 69,358 | 138,717 |
| E 100 Waveguide | 0.380 | 5,245 | 14,356 | 39,112 | 109,513 | 219,027 |
| E 105 Waveguide | 0.310 | 6,430 | 17,598 | 47,943 | 134,242 | 268,485 |
| E 130 Waveguide | 0.240 | 8,305 | 22,731 | 61,927 | 173,396 | 346,793 |
| E 150 Waveguide | 0.180 | 11,074 | 30,308 | 82,569 | 231,195 | 462,391 |
| E 185 Waveguide | 0.110 | 18,121 | 49,594 | 135,114 | 378,320 | 756,640 |
| E 220 Waveguide | 0.080 | 24,916 | 68,193 | 185,782 | 520,190 | 1,040,380 |
| E 250 Waveguide | 0.060 | 33,222 | 90,924 | 247,709 | 693,587 | 1,387,174 |
| E 380 Waveguide | 0.030 | 66,444 | 181,848 | 495,419 | 1,387,174 | 2,774,349 |

Dehydrator Capacity Chart in Metri Units

- [External Document Links](#)
- [BD210WLP Series User Guide](#)
- [Dehydrator Start-up Kits and Accessory Datasheet](#)
- [Dehydrator Sizing Reference Guide](#)
- [BD550W Series Datasheet](#)
- [BD1500W Series Datasheet](#)
- [BD4200W Series Datasheet](#)
- [BD8402W Series Datasheet](#)