

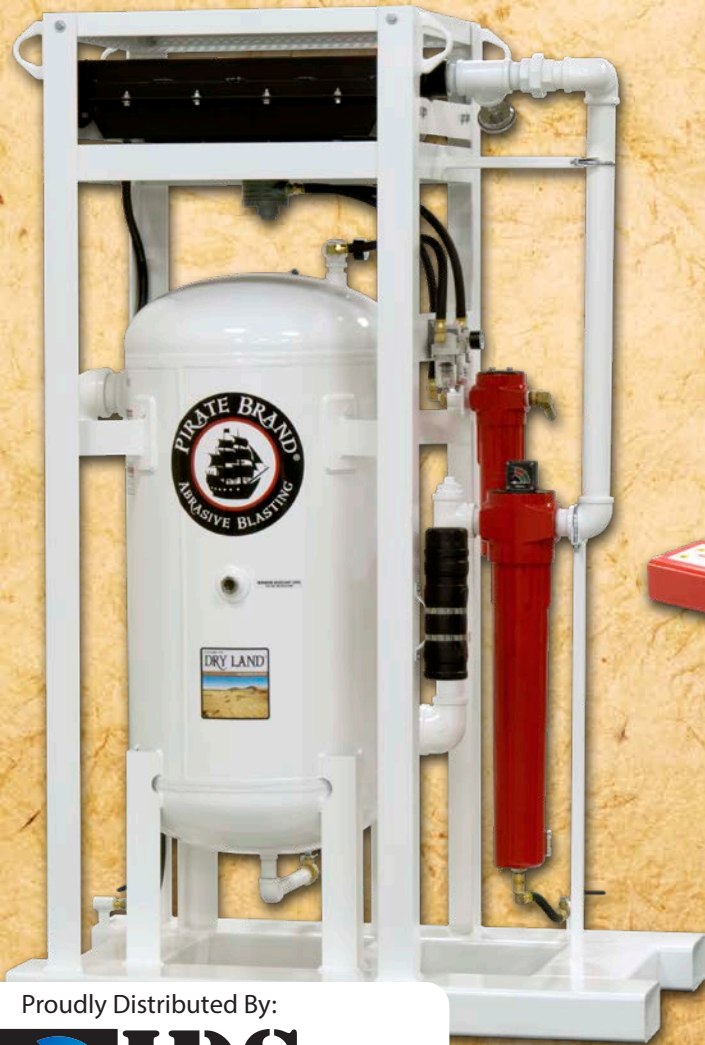


# PIRATE<sup>®</sup> BRAND

## Air Dryers & After Coolers



# DRY LAND<sup>™</sup>



Proudly Distributed By:



2717 Tobey • Indianapolis, IN 46219  
(317) 545-0665 • FAX (317) 545-0670 • (800) 800-0665  
[www.idsblast.com](http://www.idsblast.com)



See limited warranty documentation for complete details

# AIR DRYERS

## Features

Pirate Brand® Dry Land™ air dryers are the perfect solution for the mobile blasting and painting contractor. They are single tower deliquescent compressed air drying packages conveniently mounted to a forklift skid so it can be easily lifted on the back of a truck or trailer and moved about within a plant or work site.

- **REMOVES FAR MORE MOISTURE THAN AN AFTER COOLER**
- No electricity required, Plug-n-Play design
- Efficient - very low PSI drop
- Better operator comfort = more productive operators
- ASME sec. VIII div 1 / CRN for all provinces desiccant vessel
- Operates below freezing temperatures
- Portable design - full load lifting eyes / fork pockets

### AFTER COOLER & AIR MOTOR

Cools incoming air to near ambient temperatures allowing moisture to condense out of the compressed air.

### LINED DESICCANT TANK

Desiccant tank features interior POLYARMOR® thermoplastic coating and has a 10 year limited warranty. Contains desiccant tablets (not included) that absorb most remaining moisture and dissolve to be drained from the bottom of the tank.



### SIGHT GLASS

For checking minimum desiccant level.

### AFTER COOLER DRAIN

Conveniently located near bottom of the air dryer. A must for winterization.

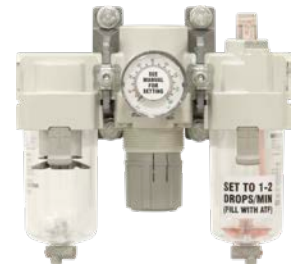


### TEMPERATURE GAUGE

Important for achieving most efficient air motor setting and for troubleshooting.

### AIR MOTOR REGULATOR, FILTER & OILER PACK

Allows full control of air motor speed to achieve most efficient operation in varying ambient conditions. Filters, adjusts pressure, and adds lubricating oil to air motor drive air.



### AIR MOTOR OIL TRAP

Collects used lubricating oil from air motor exhaust preventing it from being dumped on the ground.

### COALESCING FILTER

High efficiency coalescing filter removes oil from compressed air stream preventing contamination of the desiccant. Includes filter condition gauge to indicate when it is time to change the filter element.



See limited warranty documentation for complete details

# AIR DRYERS

## Available Models



### DLAD-250-360

250 SCFM @ 100 PSI  
360 SCFM @ 150 PSI

### DLAD-450-575

450 SCFM @ 100 PSI  
575 SCFM @ 150 PSI

### DLAD-750-1130

750 SCFM @ 100 PSI  
1130 SCFM @ 150 PSI

### DLAD-900-1160

900 SCFM @ 100 PSI  
1160 SCFM @ 150 PSI

### DLAD-1600-2300

1600 SCFM @ 100 PSI  
2300 SCFM @ 150 PSI

### Maximum CFM & m<sup>3</sup>/min for Air Dryers and After Coolers

Model	80 PSI (5.5 BAR)	100 PSI (6.9 BAR)	125 PSI (8.6 BAR)	150 PSI (10.3 BAR)	175 PSI (12.1 BAR)	200 PSI (13.7 BAR)	Maximum
DLAD/DLAC-250-360	210 CFM (5.9 m <sup>3</sup> /min)	250 CFM (7.1 m <sup>3</sup> /min)	305 CFM (8.6 m <sup>3</sup> /min)	360 CFM (10.2 m <sup>3</sup> /min)	415 CFM (11.8 m <sup>3</sup> /min)	470 CFM (13.3 m <sup>3</sup> /min)	<b>200 PSI (13.7 BAR)</b>
DLAD/DLAC-450-575	330 CFM (9.3 m <sup>3</sup> /min)	450 CFM (12.7 m <sup>3</sup> /min)	500 CFM (14.2 m <sup>3</sup> /min)	575 CFM (16.3 m <sup>3</sup> /min)	660 CFM (18.7 m <sup>3</sup> /min)	750 CFM (21.2 m <sup>3</sup> /min)	
DLAD/DLAC-750-1130	630 CFM (17.8 m <sup>3</sup> /min)	750 CFM (21.2 m <sup>3</sup> /min)	960 CFM (27.2 m <sup>3</sup> /min)	1130 CFM (32 m <sup>3</sup> /min)	1300 CFM (36.8 m <sup>3</sup> /min)	1475 CFM (41.8 m <sup>3</sup> /min)	
DLAD/DLAC-900-1160	720 CFM (20.4 m <sup>3</sup> /min)	900 CFM (25.5 m <sup>3</sup> /min)	1000 CFM (28.3 m <sup>3</sup> /min)	1160 CFM (32.8 m <sup>3</sup> /min)	1350 CFM (38.2 m <sup>3</sup> /min)	1600 CFM (45.3 m <sup>3</sup> /min)	
DLAD/DLAC-1600-2300	1320 CFM (37.4 m <sup>3</sup> /min)	1600 CFM (45.3 m <sup>3</sup> /min)	1950 CFM (55.2 m <sup>3</sup> /min)	2300 CFM (65.1 m <sup>3</sup> /min)	2730 CFM (77.3 m <sup>3</sup> /min)	3245 CFM (91.9 m <sup>3</sup> /min)	

### WEIGHTS / DIMENSIONS / CAPACITIES ON PG. 6

## How It Works

**HOW THE AIR DRYER WORKS:** Pirate Brand® Dry Land™ Single Tower, Deliquescent, Air Dryers are a skid mounted system which includes an after cooler, a coalescing filter, and a single tower dryer filled with desiccant tablets. Warm compressed air enters the aftercooler where it is cooled to a 10°F to 15°F (5.6°C to 8.3°C) approach to ambient air temperature, water is condensed out during this cooling process. The saturated air and liquid water pass through a coalescing filter where any oil contaminants from the compressor are removed and then proceeds to the inlet of the dryer tank. The water and any solid particles present are separated by gravity and fall to the bottom of the dryer tank. The air moves up through the desiccant tablets which absorb the moisture from the air dropping the relative humidity before it flows through the dryer outlet. The tablets dissolve gradually as they absorb the moisture. The dissolved desiccant and water falls to the bottom of the vessel. The dryer must be drained periodically to remove the accumulated solution. A manual ball valve is installed for this purpose.

The blasting contractor is left with cool, clean and dry compressed air for superior blasting quality and zero moisture-related downtime.

**WHAT IS DELIQUESCENT DESICCANT?:** Deliquesce means to dissolve. A desiccant is a drying agent. So deliquescent desiccant is a drying agent that dissolves.

# AFTER COOLERS

## Features

Pirate Brand® Dry Land™ after coolers are a great solution for the mobile blasting and painting contractor when an air dryer is not within the budget. They cool the compressed air allowing most moisture to condensate out and be drained away. However, they do not further reduce the humidity saturation of the air like an air dryer's absorbent desiccant tank can.

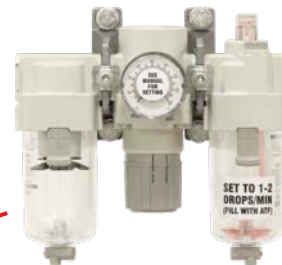
- No electricity required, Plug-n-Play design
- Efficient - very low PSI drop
- Better operator comfort = more productive operators
- Operates below freezing temperatures
- Portable design - fork pockets

### AFTER COOLER & AIR MOTOR

Cools incoming air to near ambient temperatures allowing moisture to condense out of the compressed air.

### AIR MOTOR REGULATOR, FILTER & OILER PACK

Allows full control of air motor speed to achieve most efficient operation in varying ambient conditions. Filters, adjusts pressure, and adds lubricating oil to air motor drive air.



### 5 YEAR LIMITED WARRANTY

Every Pirate Brand® Dry Land™ after cooler now comes with a 5 year limited warranty. See warranty documentation for complete details.

### COALESCING FILTER

High efficiency coalescing filter removes oil from compressed air stream. Includes filter condition gauge to indicate when it is time to change the filter element.

### AFTER COOLER DRAIN

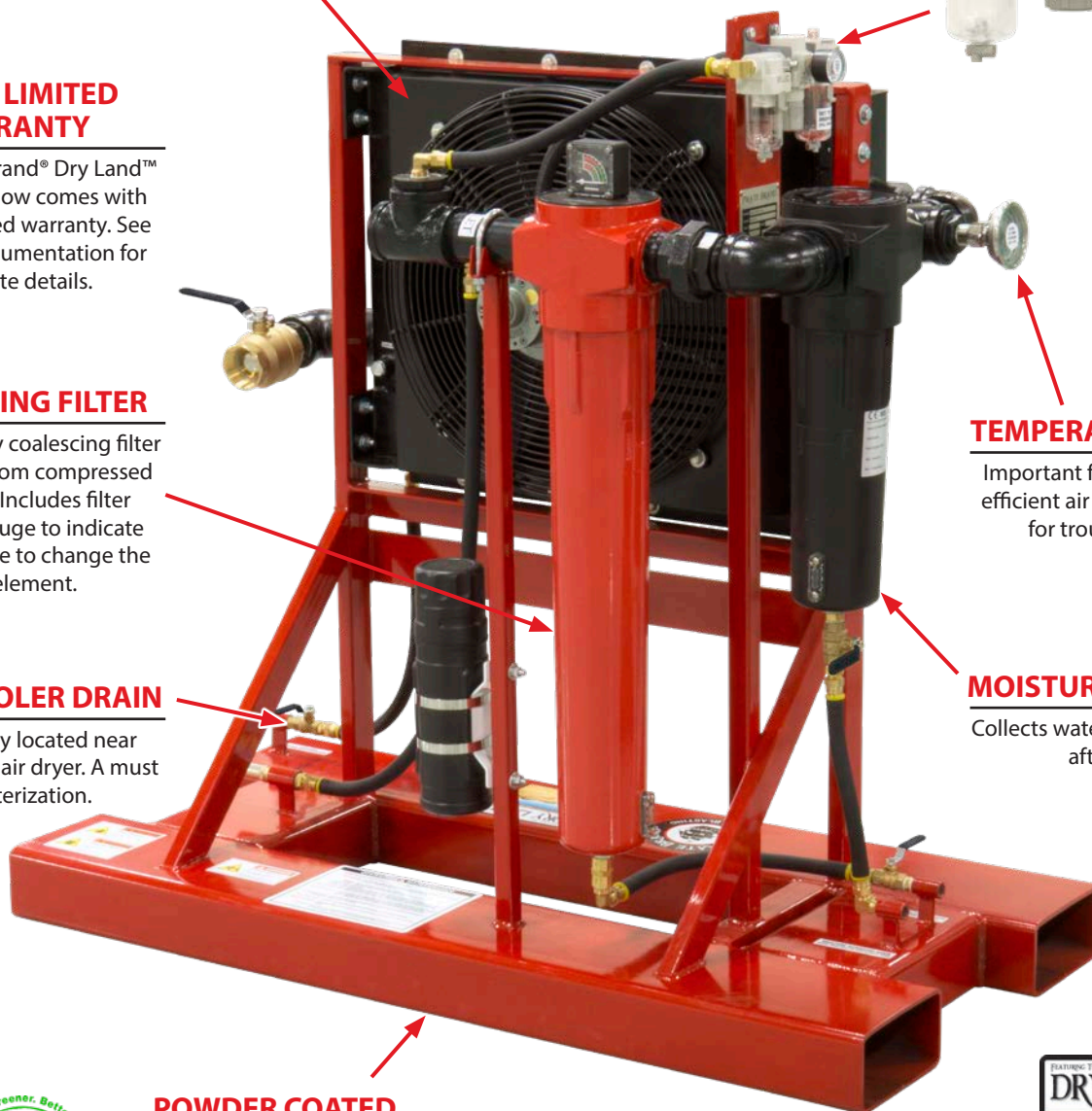
Conveniently located near bottom of the air dryer. A must for winterization.

### TEMPERATURE GAUGE

Important for achieving most efficient air motor setting and for troubleshooting.

### MOISTURE SEPARATOR

Collects water generated by the after cooler.



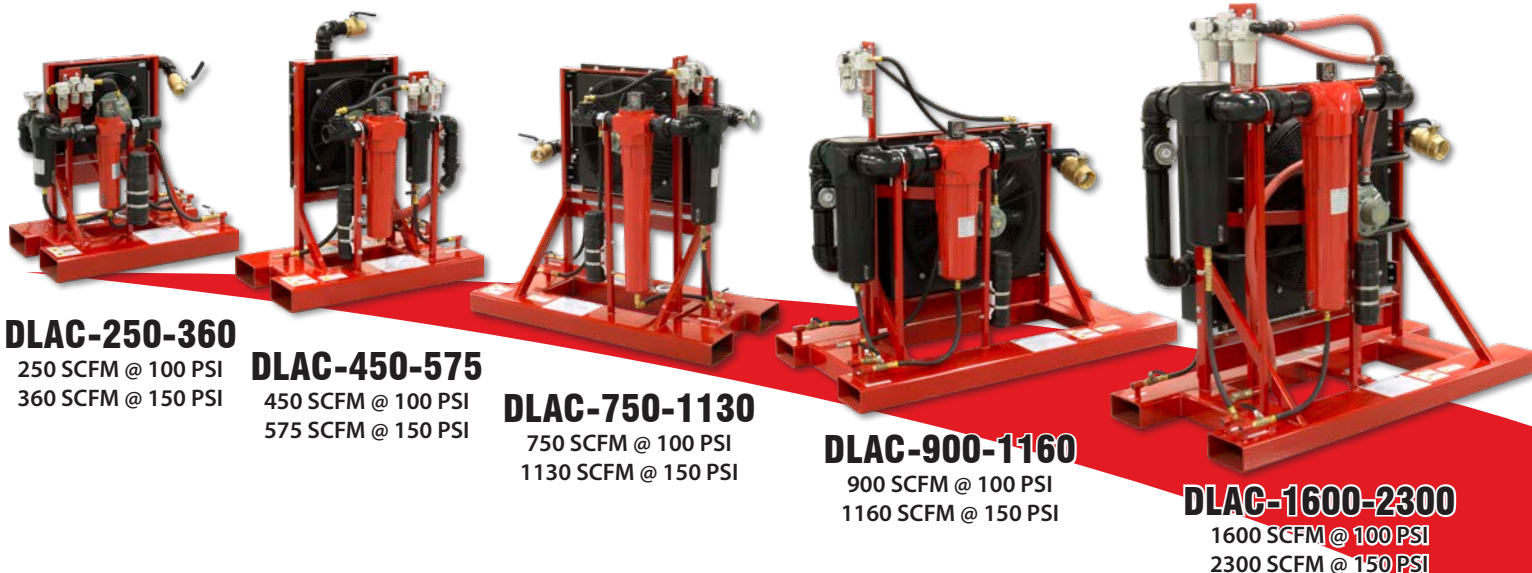
### POWDER COATED

Fork pockets and frame are powder coated for ultimate durability to protect your investment.



# AFTER COOLERS

## Available Models



### DLAC-250-360

250 SCFM @ 100 PSI  
360 SCFM @ 150 PSI

### DLAC-450-575

450 SCFM @ 100 PSI  
575 SCFM @ 150 PSI

### DLAC-750-1130

750 SCFM @ 100 PSI  
1130 SCFM @ 150 PSI

### DLAC-900-1160

900 SCFM @ 100 PSI  
1160 SCFM @ 150 PSI

### DLAC-1600-2300

1600 SCFM @ 100 PSI  
2300 SCFM @ 150 PSI

### Maximum CFM & m<sup>3</sup>/min for Air Dryers and After Coolers

Model	80 PSI (5.5 BAR)	100 PSI (6.9 BAR)	125 PSI (8.6 BAR)	150 PSI (10.3 BAR)	175 PSI (12.1 BAR)	200 PSI (13.7 BAR)	Maximum
DLAD/DLAC-250-360	210 CFM (5.9 m <sup>3</sup> /min)	250 CFM (7.1 m <sup>3</sup> /min)	305 CFM (8.6 m <sup>3</sup> /min)	360 CFM (10.2 m <sup>3</sup> /min)	415 CFM (11.8 m <sup>3</sup> /min)	470 CFM (13.3 m <sup>3</sup> /min)	<b>200 PSI (13.7 BAR)</b>
DLAD/DLAC-450-575	330 CFM (9.3 m <sup>3</sup> /min)	450 CFM (12.7 m <sup>3</sup> /min)	500 CFM (14.2 m <sup>3</sup> /min)	575 CFM (16.3 m <sup>3</sup> /min)	660 CFM (18.7 m <sup>3</sup> /min)	750 CFM (21.2 m <sup>3</sup> /min)	
DLAD/DLAC-750-1130	630 CFM (17.8 m <sup>3</sup> /min)	750 CFM (21.2 m <sup>3</sup> /min)	960 CFM (27.2 m <sup>3</sup> /min)	1130 CFM (32 m <sup>3</sup> /min)	1300 CFM (36.8 m <sup>3</sup> /min)	1475 CFM (41.8 m <sup>3</sup> /min)	
DLAD/DLAC-900-1160	720 CFM (20.4 m <sup>3</sup> /min)	900 CFM (25.5 m <sup>3</sup> /min)	1000 CFM (28.3 m <sup>3</sup> /min)	1160 CFM (32.8 m <sup>3</sup> /min)	1350 CFM (38.2 m <sup>3</sup> /min)	1600 CFM (45.3 m <sup>3</sup> /min)	
DLAD/DLAC-1600-2300	1320 CFM (37.4 m <sup>3</sup> /min)	1600 CFM (45.3 m <sup>3</sup> /min)	1950 CFM (55.2 m <sup>3</sup> /min)	2300 CFM (65.1 m <sup>3</sup> /min)	2730 CFM (77.3 m <sup>3</sup> /min)	3245 CFM (91.9 m <sup>3</sup> /min)	

**WEIGHTS / DIMENSIONS / CAPACITIES ON PG. 6**

## How It Works

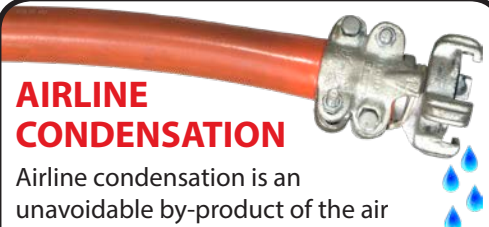
**HOW THE AFTER COOLER WORKS:** Pirate Brand® Dry Land™ After Coolers are a skid mounted system which includes an after cooler, a moisture filter, and a coalescing filter. Warm air enters the aftercooler where it is cooled to a 10°F to 15°F (5.6°C to 8.3°C) approach to ambient air temperature, water is condensed out during this cooling process. The saturated air and liquid water pass through a moisture separator where airborne water droplets are separated out. Next the air passes through a coalescing filter where any oil contaminants from the compressor are removed before it flows through the after cooler outlet.

# WHY DRY AIR IS CRUCIAL

Blasting contractors know that dry compressed air is key to superior surface preparation. Wet compressed air clogs blast pots, corrodes valves, and causes flash rusting. Re-work is costly both in dollars and to your reputation so do the job right the first time with properly conditioned compressed air.

## PROBLEMS CAUSED BY WET/HOT COMPRESSED AIR

- Surface contamination / flash rusting on a blasted substrate
- Spoiled finishes
- Reduced flow of blast media
- Increased equipment down time
- Valve lubrication washout resulting in jams
- Clogged blast pots
- Excessive grit consumption
- Corrosion of blast pots, valves, spray guns & other equipment
- Operator Discomfort



**AIRLINE CONDENSATION**

Airline condensation is an unavoidable by-product of the air compression process. Condensation occurs when hot & humid compressed air cools in the airline. A 375 CFM air compressor operating on a warm humid day will produce more than 30 gallons or 113 liters of water in a single 8 hour shift.

**ABRASIVE DOES NOT LIKE WATER:** Just one drop of water will form a **golf ball sized clump** of abrasive blast media which is more than enough to stop the flow of abrasive to the metering valve. Wet abrasive just doesn't flow.

**WARRANTIES AND REPUTATION:** With the likelihood of blasting with wet compressed air leading to surface contamination, flash rust, or coating failure, an air dryer can save you from the hassle and **loss of profitability** from performing re-work/warranty work. In addition to the savings, blasting with dry air will protect your reputation of getting the job done right the first time and help you build a collection of satisfied customers.



**OPERATOR COMFORT:** Providing dry and cool air not only improves the quality of blasting, it also allows the operators to work in greater comfort therefore **blasting more productively**. If your air compressor is putting out 180°F (82°C) air, the air dryer will cool it down to within 10°F - 15°F (5.6°C - 8.3°C) of the ambient air temperature. So on a 90°F (32°C) day, your compressed air stream can be cooled at least to 105°F (40°C). Then, using a "cool tube" the air being fed to the respirator can be cooled down to between 73°F (23°C) and 53°F (12°C). A cool/comfortable blaster is a productive blaster. **FYI:** In winter, "hot tubes" will freeze up when used with wet compressed air.

## Weights / Dimensions / Capacities

Weights / Dimensions / Capacities							
Air Dryers							
Model	Inlet	Outlet	Weight Empty	Width	Depth	Height	Desiccant Cap.
DLAD-250-360	1½" NPT	2" NPT	656 lb (298 kg)	48" (122 cm)	23" (59 cm)	73" (186 cm)	200 lb (90 kg)
DLAD-450-575	2" NPT	2" NPT	801 lb (364 kg)	49" (125 cm)	26½" (68 cm)	76" (194 cm)	300 lb (135 kg)
DLAD-750-1130	2" NPT	2" NPT	1042 lb (473 kg)	54" (138 cm)	33" (84 cm)	84" (213 cm)	400 lb (180 kg)
DLAD-900-1160	3" NPT	3" NPT	1904 lb (864 kg)	70" (178 cm)	44" (112 cm)	93" (237 cm)	1000 lb (450 kg)
DLAD-1600-2300	3" NPT	3" NPT	2090 lb (949 kg)	70" (178 cm)	44" (112 cm)	95" (242 cm)	1000 lb (450 kg)
After Coolers							
Model	Inlet	Outlet	Weight Empty	Width	Depth	Height	Desiccant Cap.
DLAC-250-360	1½" NPT	1½" NPT	263 lb (120 kg)	35" (89 cm)	22" (56 cm)	33¾" (86 cm)	N/A
DLAC-450-575	2" NPT	1½" NPT	297 lb (135 kg)	38" (97 cm)	22" (56 cm)	46" (117 cm)	
DLAC-750-1130	2" NPT	2" NPT	417 lb (190 kg)	52" (132 cm)	26" (66 cm)	55½" (141 cm)	
DLAC-900-1160	3" NPT	3" NPT	659 lb (299 kg)	64" (163 cm)	32" (82 cm)	54½" (139 cm)	
DLAC-1600-2300	3" NPT	3" NPT	844 lb (383 kg)	64" (163 cm)	32" (82 cm)	62½" (159 cm)	

# CONSUMABLES / ACCESSORIES



## DESICCANT (A)

Dry-O-Lite Desiccant Tablets, 50 Lb (22.6 kg) Bag	FD2-100
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## AIR HOSE ASSEMBLIES (B)

1-1/2" Air Hose Assembly (Red), 4-Lug Couplings, 25' (7.6 m)	10-112RED-025-1
1-1/2" Air Hose Assembly (Red), 4-Lug Couplings, 50' (15.2 m)	10-112RED-050-1
2" Air Hose Assembly (Yellow, 4-Lug Couplings, 50' (15.2 m)	10-200YEL-050-1
3" Air Hose Assembly (Yellow), Ground Joint Couplings, 50' (15.2 m)	10-300YEL-050-2

## COUPLINGS (C)

Air Hose Coupling, 4-Lug, 1-1/2" Female NPT	UF-150
Air Hose Coupling, 4-Lug, 2" Female NPT	UF-200
Air Hose Coupling, Ground Joint, 3" Female NPT Spud	GJFS-300

## PIPE NIPPLES (D)

Closed Nipple, Galvanized, 1-1/2" NPT	888-3029-10899PB
Closed Nipple, Galvanized, 2" NPT	888-3029-10999PB
Closed Nipple, Galvanized, 3" NPT	888-3029-11199PB

## BALL VALVES (E)

Ball Valve, 1-1/2"	VB150
Ball Valve, 2"	VB200
Ball Valve, 3"	VB300

## HOSE SAFETY CABLE (F)

Safety Cable, 1-1/2" - 3", Hose To Equipment	27WT-2
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## AIR DISTRIBUTION MANIFOLDS (G)

Air Distribution Manifold, 2" 4-Lug Inlet/Outlet, (8) 2-Lug Outlets, Includes Drain And Gauge, 150 PSI (10.3 BAR) Max	888-1124-11808PB
Air Distribution Manifold, 3" Ground Joint Inlet/Outlet, (8) 2-Lug Outlets, Includes Drain And Gauge, 150 PSI (10.3 BAR)Max	888-1124-11809PB

## Warranty Information

### PIRATE BRAND® DRY LAND™ AIR DRYER & AFTER COOLER 5 YEAR / 10 YEAR LIMITED WARRANTY

**5 YEAR LIMITED AIR DRYER / AFTER COOLER WARRANTY.** Manufacturer warrants the complete Air Dryer/After Cooler it manufactures to be free of defects in material and workmanship for a period of five (5) years from the date of invoice.

**10 YEAR LIMITED DESICCANT TANK WARRANTY.** Manufacturer warrants the desiccant tank (Air Dryers Only) it manufactures to be free of defects in material and workmanship for a period of ten (10) years from the date of invoice.



LIMITATION OF WARRANTIES AND REMEDIES. THIS WARRANTY IS EXTENDED ONLY TO THE BUYER WHO PURCHASES THE DRY LAND AIR DRYER OR AFTER COOLER DIRECTLY FROM THE MANUFACTURER OR ITS AUTHORIZED DISTRIBUTORS AND IS NON-TRANSFERABLE. THE PURCHASER'S EXCLUSIVE REMEDY ARISING FROM ITS PURCHASE OR USE OF THE PRODUCT SHALL BE STRICTLY LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCTS, AT THE DISCRETION OF THE MANUFACTURER, AND ALL WARRANTY CLAIMS OR REQUESTS MUST BE MADE IN WRITING TO THE MANUFACTURER WITHIN TEN (10) DAYS AFTER FAILURE OF THE PRODUCT. ALL OBLIGATIONS OR LIABILITIES OF MANUFACTURER OR SELLER FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE PRODUCT AND USE OR PERFORMANCE OF THE PRODUCTS, EXCEPT AS EXPRESSLY PROVIDED HEREIN, ARE FULLY DISCLAIMED AND EXCLUDED, AND NO SELLER OR DISTRIBUTOR HAS ANY AUTHORITY TO MAKE ANY WARRANTY OR ASSUME ANY LIABILITY ON BEHALF OF THE MANUFACTURER IN CONNECTION WITH THE SALE OF THE PRODUCT EXCEPT AS STATED HEREIN.

AS A CONDITION OF THE PURCHASE, PURCHASER AGREES THAT MANUFACTURER AND SELLER SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY COST OF FREIGHT, SHIPPING OR TRANSPORTATION, LABOR, SPECIAL CHARGES, NORMAL MAINTENANCE SERVICES, LOST OPERATING TIME, LOSS OF USE, LOST PROFITS, LOSS OF GOODWILL, CONSEQUENTIAL DAMAGES, PUNITIVE OR EXEMPLARY DAMAGES, OR OTHER DAMAGES OR LOSS. OTHER THAN AS DESCRIBED HEREIN, MANUFACTURER AND SELLER MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS, AND SPECIFICALLY DISCLAIM ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHER WARRANTY. PURCHASER ASSUMES ALL RISK AND LIABILITY RESULTING FROM THE USE OF THE PRODUCTS. PURCHASER FURTHER AGREES AS A CONDITION OF THE SALE AND THE USE OF THE PRODUCT, THAT ANY DAMAGES OR RISK OF LOSS OTHER THAN AS DESCRIBED HEREIN ABOVE, SHALL BE THE EXCLUSIVE RESPONSIBILITY OF THE PURCHASER AND NOT THE MANUFACTURER OR SELLER. MANUFACTURER AND SELLER SHALL NOT BE LIABLE FOR ANY DAMAGES INCURRED BY ANY PERSON AS A RESULT OF MISUSE, IMPROPER INSTALLATION, IMPROPER APPLICATION, IMPROPER OPERATION OF THE PRODUCTS, NORMAL WEAR AND TEAR, ALTERATIONS OR MODIFICATIONS MADE TO THE PRODUCTS, OR ACCIDENT. THE USE OF REPLACEMENT PARTS NOT PROVIDED OR AUTHORIZED BY THE MANUFACTURER VOIDS ALL WARRANTIES.

A COMPLETELY FILLED OUT WARRANTY CARD MUST BE RETURNED TO THE MANUFACTURER WITHIN THIRTY (30) DAYS OF PURCHASE OF THE PRODUCT OR ALL WARRANTIES ARE VOID. PRODUCT MUST BE MAINTAINED IN ACCORDANCE TO THE MAINTENANCE SCHEDULE PROVIDED IN THE PRODUCT MANUAL, FAILURE TO MAINTAIN THE PRODUCT IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE VOIDS ALL WARRANTIES. THIS WARRANTY DOES NOT COVER FACTORY INSTALLED OR CUSTOMER INSTALLED ACCESSORIES.

WARRANTY CLAIMS. Warranty claims must be submitted to the manufacturer within ten (10) days after failure of the product. Contact information for warranty claims:

Forecast Sales Inc., 2719 Tobey Dr., Indianapolis, IN 46219, 317-829-0147

Effective Oct 27, 2017

# PIRATE BRAND®

At Pirate Brand®, we know abrasive blasting. We have fused our 100+ years of combined experience in the blasting industry with feedback from distributors and end-users to produce abrasive blast equipment and replacement parts that are second to none. In addition to our extensive line of blasting equipment, we produce a full line of aftermarket parts that are 100% compatible replacements for other blast equipment manufacturers. We believe in quality, reliability and productivity so we subject all our products to strict quality control testing to ensure the best possible performance is achieved.

**In the tough world of abrasive blasting, quality is crucial,**

**...and Pirate Brand® delivers.**



**Portable Abrasive Blasters • Stationary Abrasive Blasters • Bulk Abrasive Blasters  
Soda Blasters • Air Dryers • After Coolers • Specialty Equipment • Blast Cabinet Parts  
Parts For Other Brands • Safety Gear • Nozzles • Air & Blast Hose • Couplings**