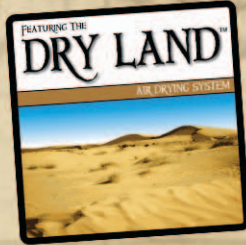









AIR DRYERS



"LET US HELP YOU FIND YOUR WAY TO DRY AIR."

-  **Increase Blasting Profitability**
-  **Eliminate Flash Rusting, Clogged Blast Pots and Downtime**
-  **Small Footprint**
-  **Complete Portability**
-  **Low System Pressure Drop**



PRODUCT FEATURES

- ✗ Steel Skid Forklift Channels and Lifting Lugs for Portability
- ✗ Air Motor Includes Filter, Regulator, Lubricator and Muffler
- ✗ Epoxy Internal Dryer Coating for Long Vessel Life
- ✗ Downstream Particulate Filter with Permanent Stainless Steel Mesh
- ✗ Two Dryer Sight Windows for Desiccant Level Viewing



MOISTURE SEPARATORS

Available in 800CFM & 1600CFM
Sizes For Both
Portable & Stationary Applications.



PIRATE BRAND® AIR DRYERS

WHY IS DRY COMPRESSED AIR SO IMPORTANT IN ABRASIVE BLASTING?

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 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

ABRASIVE DOES NOT LIKE WATER: Just one drop of water will form a golf ball size 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.



AIRLINE CONDENSATION is an unavoidable byproduct of the air compression process. Condensation occurs when hot & humid compressed air cools in the airline. A 375CFM air compressor operating on a warm humid day will produce more than 30 gallons of water in a single 8 hour shift.



CONTRACTORS BEWARE - AFTER-COOLERS ARE NOT AIR DRYERS!

Blasting contractors: remember that an **AFTER-COOLER** and moisture separator alone do not prevent condensation from occurring downstream. To lower the humidity of blasting air and prevent condensation from occurring on the blasted surface, an **AIR DRYER** must be used. Dry air is the key to superior surface preparation.

INDUSTRY CONFUSION: Many suppliers are incorrectly referring to their **AFTER-COOLERS** as **AIR DRYERS**. If a unit only contains a fan/radiator and filter, it is only an after-cooler. If it has those components + a large tank of desiccant, then it is an **AIR DRYER**.

	AFTER-COOLER	AIR DRYER
Cools Incoming Air	✓	✓
Removes Entrained Moisture	✓	✓
Filters Air	✓	✓
Removes Water Vapor From Cooled Air (Lowers Relative Humidity)		✓
Uses Desiccant		✓
Works Down To 0° F		✓

PIRATE BRAND® AIR DRYERS



AIR DRYERS - HOW THEY WORK & WHAT THEY DO FOR YOU

Pirate Brand® air dryers are the perfect solution for the mobile blasting and painting contractor. They are single tower deliquescent compressed air drying package 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**
- Completely portable skid mounted system
- No electricity required, Plug-n-Play design
- Efficient - very low PSI drop
- Air motor with filter and auto-lubricator
- Two site glasses for checking desiccant level
- Includes initial desiccant fill free
- Operates down to 0°F
- Better operator comfort = more productive operators



HOW THE AIR DRYER WORKS: The air dryer first cools hot and wet air discharged from the compressor. This first stage of cooling forces a substantial quantity of entrained moisture to condense. But even after exiting the after-cooler, the air is saturated with vapor (100% relative humidity) The compressed air then passes through the drying vessel, which contains specially formulated desiccant called Dry-O-Lite®. The desiccant cuts the humidity of the air roughly in half. Air finally flows through an after-filter to trap any fine particles in the air flow.

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.

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 air, the air dryer will cool it down to within 10°F - 15°F of the ambient air temperature. So on a 90°F day, your compressed air stream can be cooled at least to 105°F. Then, using a "cool tube" the air being fed to the respirator can be cooled down to between 73°F and 53°F. A cool/comfortable blaster is a productive blaster.

FYI: In winter, "hot tubes" will freeze up when used with wet compressed air.



AVAILABLE MODELS



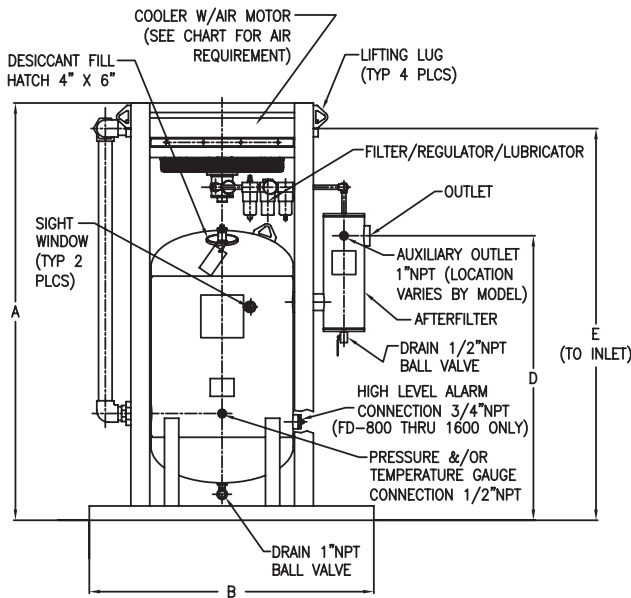
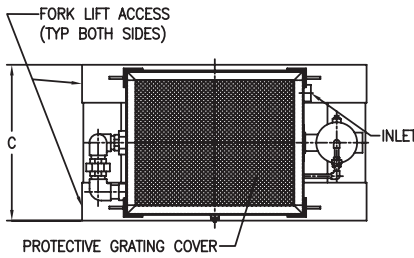
ADPB-250
250 SCFM @ 100 PSI
350 SCFM @ 150 PSI

ADPB-400
400 SCFM @ 100 PSI
574 SCFM @ 150 PSI

ADPB-750/950
800 SCFM @ 100 PSI
1149 SCFM @ 150 PSI

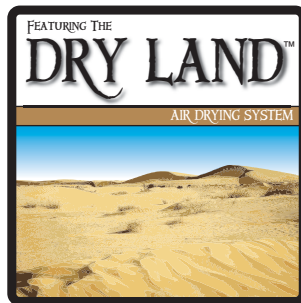
ADPB-1200
1200 SCFM @ 100 PSI
1723 SCFM @ 150 PSI

ADPB-1600
1600 SCFM @ 100 PSI
2297 SCFM @ 150 PSI



Model Number	ADPB-250	ADPB-400	ADPB-750-950	ADPB-1200	ADPB-1600
Part Number	888-1310-021PB	888-1310-041PB	888-1310-071PB	888-1310-121PB	888-1310-161PB
Max Working Pressure	200 PSIG 13.8 BAR	200 PSIG 13.8 BAR	200 PSIG 13.8 BAR	200 PSIG 13.8 BAR	175 PSIG 12.1 BAR
Dryer Flows @ 60 PSIG / 4.1 BAR	163 SCFM 262 Nm ³ /hr	261 SCFM 419 Nm ³ /hr	521 SCFM 838 Nm ³ /hr	782 SCFM 1256 Nm ³ /hr	1042 SCFM 1675 Nm ³ /hr
Dryer Flows @ 80 PSIG / 5.5 BAR	206 SCFM 331 Nm ³ /hr	330 SCFM 531 Nm ³ /hr	661 SCFM 1062 Nm ³ /hr	991 SCFM 1593 Nm ³ /hr	1321 SCFM 2124 Nm ³ /hr
Dryer Flows @ 100 PSIG / 6.9 BAR	250 SCFM 402 Nm ³ /hr	400 SCFM 643 Nm ³ /hr	800 SCFM 1286 Nm ³ /hr	1200 SCFM 1929 Nm ³ /hr	1600 SCFM 2572 Nm ³ /hr
Dryer Flows @ 125 PSIG / 8.6 BAR	304 SCFM 489 Nm ³ /hr	487 SCFM 783 Nm ³ /hr	974 SCFM 1567 Nm ³ /hr	1462 SCFM 2350 Nm ³ /hr	1949 SCFM 3133 Nm ³ /hr
Dryer Flows @ 150 PSIG / 10.3 BAR	359 SCFM 577 Nm ³ /hr	574 SCFM 923 Nm ³ /hr	1149 SCFM 1847 Nm ³ /hr	1723 SCFM 2770 Nm ³ /hr	2297 SCFM 3694 Nm ³ /hr
Dryer Flows @ 175 PSIG / 12.1 BAR	413 SCFM 664 Nm ³ /hr	662 SCFM 1064 Nm ³ /hr	1323 SCFM 2127 Nm ³ /hr	1985 SCFM 3191 Nm ³ /hr	2646 SCFM 4254 Nm ³ /hr
Dryer Flows @ 200 PSIG / 13.8 BAR	468 SCFM 752 Nm ³ /hr	749 SCFM 1204 Nm ³ /hr	1497 SCFM 2408 Nm ³ /hr	2246 SCFM 3611 Nm ³ /hr	-
(A) Height	77"	77"	83-3/4"	88"	94-1/2"
(B) Depth	48"	49"	54"	60"	71-1/2"
(C) Width	27"	26"	32-7/8"	32-7/8"	43"
(D) Outlet Height	58-1/2"	58-9/16"	59-1/2"	60"	59-1/8"
(E) Inlet Height	71-9/16"	72-1/8"	78-3/8"	82-5/8"	89-3/8"
Inlet Size	1-1/2" NPT(F)	2" NPT(F)	2-1/2" NPT(F)	2-1/2" NPT(F)	3" NPT(F)
Outlet Size	1-1/2" NPT(F)	2" NPT(F)	2-1/2" NPT(F)	3" NPT(F)	3" NPT(F)
Weight	660 Lbs.	760 Lbs.	1155 Lbs.	1525 Lbs.	1875 Lbs.
Air Motor SCFM	17	25	70	70	150
Desiccant Fill	250 lbs.	400 lbs.	500 lbs.	750 lbs.	1000 lbs.

Cooler sized for 180°F inlet, 90°F ambient and 10°F approach (15°F approach on ADPB-250) for flows shown at 100 PSIG.



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