

# Prep 40 Series

## Portable Compressed Air Treatment System

**F E A T U R E S**

All-in-one portable package

Rental market tough

250 – 1600 SCFM

-40°F dew point



### **BENEFITS OF THE PREP 40 SERIES**

Simple // Tough // Portable

[vanairsystems.com](http://vanairsystems.com)

# The Prep 40 from Van Air Systems

**Equipment rental is a tough business. Your equipment on the job site will get dinged, dented, and dropped. And the operator will still demand 100 percent performance. Sensitive equipment need not apply.**

Enter the Prep 40 from Van Air Systems. It's a completely portable compressed air treatment package engineered specifically for the demands of the equipment rental industry. Drag it. Bang it. Rain, wind, or sun. Under harsh conditions the Prep 40 still meets the most stringent compressed air quality standards.

The Prep 40 will produce compressed air with a -40°F pressure dew point, remove particulates down to 1 micron, and reduce lube oil content to .008 PPM.

The Prep 40 is plug-n-play. The cooler, moisture separator, filters, and dryer are fully integrated at the Van Air Systems factory in Lake City, Pennsylvania. Just connect compressed air lines, supply 115v power, and start delivering clean, dry compressed air.

**The Prep 40 is ideal for industrial facilities.**

The Prep 40 provides back-up plant air to refineries, power generators, pharmaceutical producers, semi-conductor manufacturers, mines, pipeline inspection and cleaning operations, or any industrial facility requiring high quality compressed air.

**Van Air Systems offers five Prep 40 sizes.**

Conveniently aligned with common portable diesel compressor sizes, the Prep 40 is available with capacities of 400, 800 and 1600 SCFM.



**It's all in the details.** *A closer look at the Prep 40.*



Lifting Lugs



Air Powered After-Cooler



Regulator - Lubricator



Air In / Out



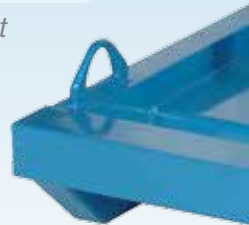
Filters



Forklift Pockets



NEMA 4X Control Box





# Simple is better!



Manufactured in Lake City, Pennsylvania, all Prep 40 Series dryers are painted with a 2-part epoxy polyurethane coating system. The rugged coating ensures the equipment will endure in the harshest outdoor operating environments.

In the rental market, a simple air dryer is ideal. That's why the Prep 40 uses fewer valves than competitive units. Two solenoids. Two checks. Two purge valves. One three-way valve. That's it. Easy to operate. Easier to service.

The heart of the Prep 40 is the single 3-way piloted shuttle valve. This workhorse valve has been field tested to more than 1 million cycles, with more than 50,000 units in service worldwide. Driven by a combination of control air and process air, the valve's linear moving shuttle is permanently lubricated and features stationary Teflon seats for leak-free seals. Servicing the valve requires no special training or tools.



3-Way Inlet Transfer Valve



Purge Mufflers & PDV-500T not shown

## STANDARD EQUIPMENT

- Inlet Y-strainer
- Regulator - lubricator
- Trim Cooler with air motor, 15°F approach
- Bulk moisture separator with auto drain
- Coalescing pre-filter, with auto drain
- Heatless regenerative dryer
- NEMA 4X control enclosure
- Power on/off switch
- Power on light
- Purge mufflers
- Failure to switch light
- PDV-500T Drain
- Hour meter
- Tower pressure gauges
- Visual moisture indicator
- Control air filter
- Nylon control air tubing
- Open frame fork lift skid
- Four point lifting lugs
- Activated alumina desiccant
- Canadian Registration Numbers (CRN) (FD-400 & FD-800 only)
- Safety relief valves
- Purge flow gauge
- Epoxy/polyurethane paint

## OPTIONS

- Higher design pressure
- Customer specified paint color

## DIMENSIONS & SPECIFICATIONS

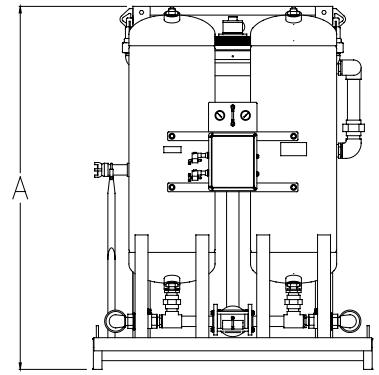
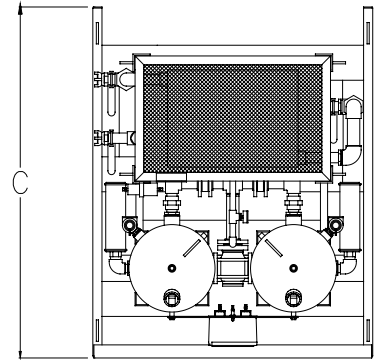
Model No.	A		B		C		In/Out Conn.	Desiccant Qty. Per Unit		Total Weight	
	in	cm	in	cm	in	cm		lbs	kg	lbs	kg
FR-400	67	171	48	122	71	181	2" LUG Coupling	430	95	1750	794
FR-800	83	211	65	166	80	204	2" LUG Coupling	880	399	3280	1488
FR-1600	88	224	78	198	70 1/2	179	3" FLG	1820	826	5395	2447

## MAXIMUM CAPACITIES SCFM / Nm<sup>3</sup>hr for -40°F PDP

Model No.	60 PSIG		80 PSIG		100 PSIG		125 PSIG		150 PSIG		175 PSIG	
	4.1 BARG		5.5 BARG		6.9 BARG		8.6 BARG		10.3 BARG		12 BARG	
FR-400	260	442	330	561	400	680	441	750	479	815	514	874
FR-800	521	886	661	1224	800	1360	883	1501	958	1629	1029	1749
FR-1600	1042	1771	1321	2246	1600	2720	1766	3001	1917	3259	2057	3498

Maximum capacities above are based on 150°F inlet to skid, 85°F ambient, and 100% RH.

Operating Conditions	Maximum	Minimum
Pressure	175 PSIG	60 PSIG
Ambient Temperature	120°F	40°F



2950 Mechanic Street, Lake City, PA 16423, USA | Toll Free Phone 800-840-9906 | Corporate Fax 814-774-0778 | Order Entry Fax 814-774-3482

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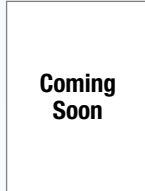
## Prep 40 Series - PDF Downloads

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### Installation, Operation and Maintenance Manuals

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FR-250



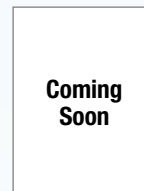
FR-400



FR-800



FR-1200



FR-1600



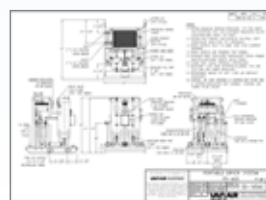
### Sales Drawings

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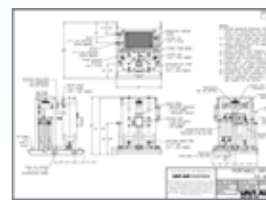
FR-250



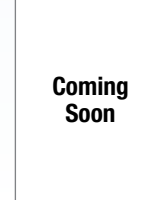
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