

CLEAN RESOURCES

Engineered Molecular Filtration Solutions
for Discharge Water Problems



CRP & CRP-IDC Paks

Compressed air condensate can provide environmental headaches for today's manufacturer. That's because dumping contaminated water is not only detrimental to the environment, it is also illegal. With over 50 years experience in the environmental and compressed air field, Clean Resources is the leader in molecular filtration for compressor condensate. In 1997, as CRP Inc., we pioneered molecular filtration for the compressor condensate market. We were first to offer a specific ppm guarantee for oil/water separators and we stand ready to offer innovative solutions to keep your compressor room EPA compliant.

Problems caused by contaminants in the waste stream:

There are two main problems caused by dumping compressed air condensate that is laden with compressor lubricants:

1. Pollution - Just one gallon of compressor lubricant can contaminate up to four acres of ground water. A 100 hp compressor operating 24/7 will carry over 15 gallons of lubricant annually.
2. Environmental liability - It's illegal to dump oil-laden compressor condensate into the ground or sewer system. The legal limits range between 10 ppm and 100 ppm of allowable lubricant contamination, depending on your location.

Typical compressor condensate has 500 - 3000 ppm of contaminants. The cost of non-compliance is high. Fines, negative publicity and clean up costs add up to tens of thousands of dollars.

CRP Paks from Clean Resources are Your Solution

CRP Paks are filled with a media bed formulated to attract the targeted contaminant, while at the same time repelling the water molecules. Wastewater passes through the media bed and the contaminants are trapped by the bed. The lubricants are actually bonded to the media bed, virtually eliminating the possibility of ground water contamination from the spent bed.

Unlike some oil/water separators that utilize gravity separation as pre filtration, CRP units need no pumps, sensors, or pre-separation filter pads. The reason CRP Paks stand alone is that the superior media bed is so efficient no pre filtration is needed. In addition, the rugged internal piping and a fail-safe decompression chamber assure proper operation. All CRP Paks contain media beds of the highest quality alumino silicate substrate, the product of a proprietary process that applies the proper quats in a particular sequence under tight quality assurance standards.

The specially treated alumino silicate substrate media bed is a key to CRP Pak's outstanding performance.



Laboratory tested, field-proven results

Extensive independent laboratory tests and thousands of real-world installations prove the effective performance of CRP Paks in handling ALL compressor lubricants.

Traditional condensate processing is costly and often ineffective. There are a number of conventional ways to handle oil-laden compressor condensate, however, these alternatives are often expensive and ineffective.

- You can have condensate hauled away by a licensed hazardous waste contractor. This is generally the most costly and time-consuming solution.
- Flotation separators are used in the compressor industry for the separation of lubricants from water. These devices are not effective in removing emulsified, glycol-based, or non-synthetic lubricants. Flotation separators frequently clog and spill due to mold growth, and e-coli bacteria can form on the water's surface.
- Boil off systems use heat to distill the water, leaving only the contaminant. Although often effective in removing contaminants, these systems are costly to operate and maintain due to high energy usage.

CRP Paks provide cost-effective condensate treatment

CRP Paks from Clean Resources are engineered to minimize maintenance and clean up headaches, operate efficiently in all conditions, and are extremely cost effective. This advanced molecular filtration system removes all types of lubricants, drastically reducing disposal costs. CRP Paks have successfully brought over 10,000 compressor rooms into EPA compliance.



CRP Paks make disposal easy

CRP / CRP-IDC PAKS can be disposed of as non-hazardous special waste provided the liquid has been drained. Should your landfill not accept the spent unit it can be returned to one of our sites, simply fill out the disposal form at www.cleanresources.com and follow the instructions.

Guaranteed performance

Thousands of CRP / CRP-IDC Paks are operating successfully in the field. That's why Clean Resources can offer the following warranty for all CRP Pak models.

When properly sized and installed, CRP / CRP-IDC Paks are guaranteed to reduce the contaminants in your compressor condensate to less than 10 ppm, for the life of the unit. In the event a unit fails while operating in approved conditions and having been properly sized and installed, Clean Resources, Inc. will replace the failed CRP Pak or provide a refund through your distributor.

What "Model" should I choose?

CRP Pak

CRP models are designed to utilize an external decompression chamber (model DC-207a). These models are used most often when replacing existing CRP units. CRP models are also used when configuring units in series. (consult factory)

CRP Pak Specifications:

(requires an external Decompression Chamber)

	CRP 15	CRP 30	CRP 55
Inlet/Outlet	2" / .75"	2" / 2"	2" / 2"
Height	20"	29"	33"
Width/Depth	15"	19"	23"
Max Flow (gpm)	5	10	15
Max Temp (f)	125	125	125
Shipping Weight	105#	215#	400#

Life expectancy of the CRP Pak depends on the amount of lubricant carryover from the compressor(s). Contaminant absorption capacity is approximately 50% of media bed volume. Therefore, the 7.5, 15, 30 and 55 gallon CRP Paks have capacities of about 3.5, 7, 15 and 27 gallons of contaminant respectively. Sizing charts can be accessed at www.cleanresources.com.



CRP-IDC Pak (patent pending)

CRP-IDC models have a built in decompression chamber making installation simpler and less expensive as there is no separate decompression chamber to purchase and install. CRP / CRP-IDC Paks are available in four sizes. Select from 7.5, 15, 30 and 55 gallon capacities to meet your specific application.

CRP - IDC Pak Specifications :

(with Internal Decompression Chamber)

	CRP-7.5-IDC	CRP-15-IDC	CRP-30-IDC	CRP-55-IDC
Inlet/Outlet	.25" / .75"	.25" / .75"	.25" / .75"	.25" / .75"
Outlet	.75"	.75"	.75"	.75"
Height	25"	25"	34"	38"
Width/Depth	15"	15"	19"	23"
Max Flow (gpm)	2	2	4	6
Max Temp (f)	125	125	125	125
Shipping Weight	75#	110#	220#	400#



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Presented by: Your Local CRP Distributor:

