

CRP PAKS

CRP-IDC SERIES \ ENGINEERED MOLECULAR FILTRATION SOLUTIONS



CRP-IDC Paks: Engineered molecular filtration solutions for discharge water problems



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 year's experience in the environmental and compressed air field, Sullivan-Palatek is a leader in molecular filtration for compressor condensate. The CRP system is a molecular filtration for the compressor condensate market, developing the first decompression chamber that works with all types of compressed air drains, and the first to offer a specific ppm guaranteed for oil/water separators. Sullivan-Palatek offers a no-charge disposal option to its customers. We stand ready to offer you the kind of innovative solutions that help you attain compliance with today's most stringent environmental and clean water regulations.

Sullivan-Palatek is proud to announce the addition of a new generation of our already versatile oil/water separators. The CRP-IDC Series is available in the 7.5, 15, 30 and 55 gallon sizes.

CRP-IDCs are the latest generation of oil/water separators. These new CRP-IDC units incorporate all the reliable technologies of CRP PAKS, with the added benefits of:

- » Improved performance
- » Longer lifespan
- » One step installation
- » Lower profile

The CRP-IDCs have an improved alumina silicate substrate media bed that prolongs the life of the unit and an internal decompression chamber. The new units come complete with a 5 inlet hub, 5 hose barbs, inlet hose, and outlet hose. All you have to do is prime the unit and run your condensate lines to the unit with no need to purchase or install a separate decompression chamber.

Sizing the unit has been done in operating hours as opposed to months to make it easier for the service personnel or the client to know when to change the unit.

As with all Sullivan-Palatek's products the CRP-IDCs are designed to handle all compressor lubricants without regard to specific gravity, emulsification, or relative humidity. The CRP-IDCs are GUARANTEED to clean compressor condensate to less than 10ppm for the life of the unit or we will provide a refund through your distributor.

The NEW CRP-IDC Paks provide an easy, convenient and cost effective method to keep your compressor room EPA Compliant. The CRP-IDC Pak requires no electricity, is maintenance free, requires no pump and is not susceptible to mold growth.

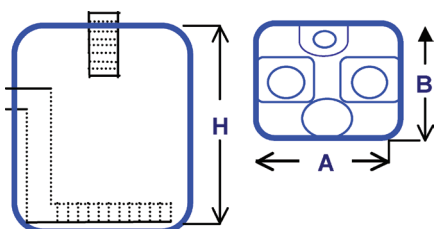


CRP-IDC Series

CRP-IDC Sizing Chart – Based On Compressor Operating Hours

	CRP-7.5-IDC	CRP-15-IDC	CRP-30-IDC	CRP-55-IDC
H.P.	OPERATING HOURS	OPERATING HOURS	OPERATING HOURS	OPERATING HOURS
5	52400	104800		
10	26000	52000		
15	17500	35000		
20	13000	26000		
25	10500	21000		
30	9000	18000		
35		15000		
40		11000		
50		10500	21000	37000
60		8500	18000	31000
75		7000	15000	26500
100		5000	10500	19000
150		3500	7000	12500
200		2500	5000	9500
300		1700	3500	6500
400			2500	5000
500			2100	3800
600			1700	3200

Life spans may vary due to differences in air compressor oil consumption rates, age & maintenance of compressor. For larger application, units may be installed in series.



CRP-IDC PAK - PARTS LIST

CRP PAK	1
Outlet Assembly	1
Inlet Hub	1
Drain Hose	1

CRP- IDC Paks W/ Internal Decompression Chamber

	CRP-7.5-IDC	CRP-15-IDC	CRP-30-IDC	CRP-55-IDC
INLETS (5) brass h.b.	.25"	.25"	.25"	.25"
OUTLET (1) poly barb	.5"	.5"	.5"	.5"
HEIGHT	20"	20"	29"	33"
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#

Laboratory tested, field-proven results

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

- Diester-based lubricants
- PAO-based lubricants
- Glycol-based lubricants
- Hydraulic lubricants
- Food grade lubricant
- Mineral-based lubricant

A partial list of lubricant brand names CRP Paks work with:

- Androl
- Ultra Chem
- Summit
- Royal Purple
- All Gardner Denver Lubricants
- All Kaeser Lubricants
- All Sullair Lubricants except 24 KT*
- All Quincy Lubricants
- All Atlas Copco Lubricants
- All Sullivan-Palatek Lubricants
- All Compair Lubricants
- All Ingersoll-Rand Lubricants

*XKT Paks are available for silicone-based lubricants such as Sullair24 KT fluid.

Guaranteed performance

Thousands of CRP-IDC Paks are operating successfully in the field. That's why Sullivan-Palatek can offer the following warranty:

CRP-IDC Paks, when properly sized and installed, 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, Sullivan-Palatek will replace the failed CRP Pak or provide a refund through your distributor.



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 Sullivan-Palatek are engineered

to minimize maintenance and clean up headaches, operate efficiently in all conditions, and reduce the cost of dealing with wastewater streams. This advanced molecular filtration system removes all types of lubricants, providing a truly scientific solution to a troublesome problem.

CRP-IDC 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 prefiltration, CRP units need no pumps, sensors, or pre-separation filter pads. The reason CRP-IDC Paks stand alone is that the superior media bed is so efficient no prefiltration is needed. In addition, the rugged internal piping and a fail-safe decompression chamber assure proper operation. All CRP-IDC 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.

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.
- **Oil/water separators** are available in a variety of styles; but they provide limited success in removing many types of oil from the compressor condensate.
- **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 nonsynthetic 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-IDC Paks provide cost-effective condensate treatment

CRP-IDC Paks are extremely cost effective. Initial cost is low, installation is easy and maintenance time is practically eliminated. Best of all, disposal costs are drastically reduced.



The Original CRP Paks and Decompression Chambers are Still Available

Sizing information and life expectancy

CRP Paks are available in three sizes. Select from 15, 30 and 55-gallon capacities to meet your specific application. 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 15, 30 and 55 gallon CRP Paks have capacities of about 7, 15 and 27 gallons of contaminant respectively.

The DC-207 decompression chamber was developed by CRP to operate with all types of drains, including float, electric, pneumatic and zero-loss styles. This design permits the separation system to properly function even in the event of a drain failure. The DC-207 decompression chamber allows for massive amounts of compressed air to be vented in the case of drain failure. The six-inch diameter port is preceded by a demister pad, thus allowing the air to vent while blocking the water and oil. Designed for easy installation, the DC-207 uses a cam lock system to quickly attach to the CRP Pak. The DC-207 has six 1/4" inlets to allow multiple drain hook ups.

CRP Paks Make Disposal Easy

The 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 the CRP sites, simply fill out the disposal form at www.sullivanpalatek.com and follow the instructions.



SPECIFICATIONS

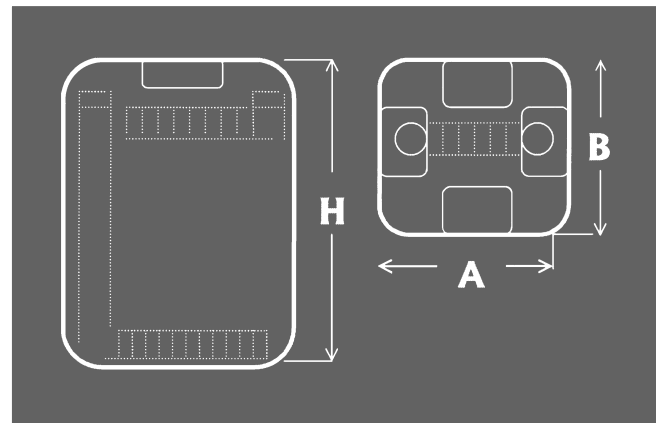
Original CRP Sizing Chart based on compressor operating hours

	CRP-15	CRP-30	CRP-55
H.P.	Months Lifespan	Months Lifespan	Months Lifespan
5	120		
10	60		
15	40		
20	30		
25	24		
30	20		
35	17		
40	13		
50	12	24	43.2
60	10	20	36
75	8	17	30.6
100	6	12	22
150	4	8	14.4
200	3	6	10.8
300	2	4	7.3
400		3	5.5
500		2.4	4.4
600		2	3.7

Life spans may vary due to differences in air compressor oil consumption rates, age & maintenance of compressor. These calculations are based on compressor operating 24 hours a day/7 days a week. For larger application, units may be installed in series

Specifications

	CRP 15	CRP 30	CRP 55
Inlet/outlet	2"1.75"	2"1/2"	2"1/2"
Height (H)	20"	29"	33"
Width (A/B)	15"	19"	23"
Maximum flow (gpm)	5	10	15
Maximum psig	2	2	2
Maximum temperature	125°F	125°F	125°F
Shipping weight	105 lbs.	215 lbs.	375 lbs.



CRP Pak vs Other Types of Separation

	CRP Pak	Flotation	Flotation w/Sorbant Final Filter	Boil Off
Handles emulsified oil	Yes	No	Yes	Yes
Performs equally well with all lubricants	Yes	No	No	Yes
Electric power required	No	No	Yes	Yes
Maintenance free	Yes	No	No	No
Pump required	No	No	Yes	No
Sensors required	No	No	Yes	Yes
Susceptible to mold growth	No	Yes	Yes	No

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