



PARKER CYCLOR SERIES

BLOWER REACTIVATED DRYER

Parker Hannifin India Pvt Ltd

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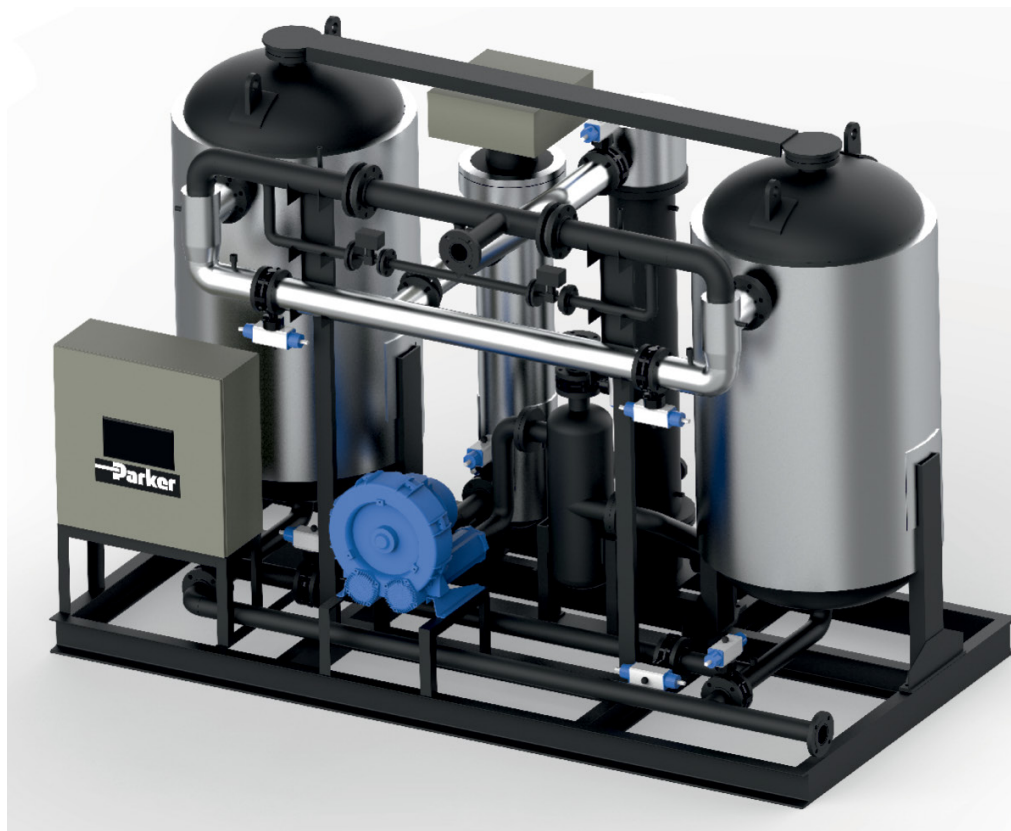


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INTRODUCTION

A Blower Reactivated Dryer is a type of desiccant air dryer designed for continuous and energy efficient removal of moisture from compressed air. Unlike heatless desiccant dryers, which use a portion of dried compressed air for regeneration, blower reactivated dryers use a separate blower to draw in ambient air, which is then heated and passed through the desiccant bed for regeneration. This approach minimizes compressed air loss, making the system highly efficient for applications requiring large volumes of dry air.

Blower reactivated dryers are especially advantageous where low inlet pressures or fluctuating operating conditions make heat-of-compression (HOC) dryers less effective. Since the regeneration air supply is independent of the compressed air stream, performance remains consistent even with varying cycle times. This makes blower reactivated dryers a reliable and efficient alternative to HOC dryers in many industrial applications.



Made in India, For India –

This dryer is designed and built to perform flawlessly in Indian operating conditions, addressing the challenges of varying low to high tropical ambient temperatures, humidity, and inlet air quality. Every unit reflects Parker commitment to self-reliance, durability, and national pride, offering Indian industries a world-class solution tailored to their needs.

MODEL: PC (Cyclor Series)

MODEL	CAPACITY
PC 100	1000 CFM
PC 150	1500 CFM
PC 200	2000 CFM

RATED CONDITIONS:

Working pressure: 7 Bar(g)
Air Inlet Temperature: 35°C
Pressure Dew Point: (-)40°C

MODEL: PCP (Cyclor Plus Series)

MODEL	DISCRIPTION
PCP 100	1000 CFM
PCP 150	1500 CFM
PCP 200	2000 CFM

RATED CONDITIONS:

Working pressure: 7 Bar(g)
Air Inlet Temperature: 35°C
Pressure Dew Point: (-)40°C

***Beyond 2000 cfm available on request**

Advantages

- **Dew Point Demand System for Energy Savings**
Automatically adjusts regeneration cycles based on actual dew point, reducing heating requirements and significantly lowering operating costs.
- **High-Efficiency Blower**
Designed for optimal airflow and reduced energy usage, ensuring reliable regeneration with minimal power consumption.
- **High-Performance Double Offset Butterfly Valve**
Industrial-grade valve design ensures tight sealing, smooth operation, and long service life, even under demanding operating conditions.
- **Closed-Loop Cooling System**
Prevents moisture loading from ambient air and delivers consistently low dew points, enhancing dryer efficiency in all weather conditions.
- **Advanced PLC with HMI Interface**
Offers intuitive operation, real-time monitoring, and easy parameter adjustments for precise process control.
- **Integrated Dew Point Analyzer**
Continuously monitors outlet dew point for performance verification and predictive maintenance planning.
- **Low Pressure Drop Design**
Minimizes compressor load, leading to lower energy consumption and reduced operational costs.
- **Extended Cycle Time up to 120 Hours**
Dew point-based cycle extension significantly reduces switching frequency, minimizing wear and extending component life while giving exceptional power savings.
- **Low Power Consumption**
Energy-optimized components and smart controls work together to achieve maximum efficiency with the lowest possible power usage.

MODEL: PCM (Cyclor Max Series)

MODEL	CAPACITY
PCM 100	1000 CFM
PCM 150	1500 CFM
PCM 200	2000 CFM

RATED CONDITIONS:

Working pressure: 7 Bar(g)
Air Inlet Temperature: 35°C
Pressure Dew Point: (-)40°C

MODEL: PCNS (Cyclor NS Series)

MODEL	DISCRIPTION
PC 100 NS	1000 CFM
PC 150 NS	1500 CFM
PC 200 NS	2000 CFM

RATED CONDITIONS:

Working pressure: 7 Bar(g)
Air Inlet Temperature: 35°C
Pressure Dew Point: (-)40°C

***Beyond 2000 cfm available on request**

Model Highlights:

Model	Special Feature	Advantage
Cyclor Series (PC)	Standard Blower Reactivated Design	Reliable, proven drying technology for consistent performance in most industrial conditions.
Cyclor Plus Series (PCP)	Chilled water booster + Cyclor	Achieves 2 stage drying. first with chilled water and second with desiccant. This gives lower dew points and exceptional power savings by dramatically extending the cycle time.
Cyclor Max Series (PCM)	High-temp inlet (220°C) handling heat recovery unit (HRU) & pre-cooler + Cyclor	Directly recovers heat from hot compressor discharge and transfers to the blower air. Electric heater is provided in series. The H R U significantly reduces burden on electric heater and results in large savings in power. In -addition there is a reduction in cost on the air compressor by doing away with compressor after cooler.
Cyclor NS Series (PCNS)	Steam heater + Cyclor	Uses cost effective plant steam for primary heating with electric backup in series. This drastically reduces electrical consumption while ensuring reliable regeneration even if steam supply fluctuates.

Dimensions and Weight:

SERIES	MODEL	DIMENSIONS			WEIGHT
		LENGTH	WIDTH	HEIGHT	KGS
		MM	MM	MM	
PC	PC 100	3550	1850	2430	4200
	PC 150	3950	2000	2600	5700
	PC 200	4400	2300	2800	6900
PCP	PCP 100	4000	1850	2500	5200
	PCP 150	4400	2000	2700	6800
	PCP 200	5000	2300	2900	8100
PCM	PCM 100	4050	2000	2850	6550
	PCM 150	4400	2250	2900	7800
	PCM 200	4900	2450	3050	9900
PCNS	PCNS 100	4050	2000	2430	6020
	PCNS 150	4400	2250	2600	7300
	PCNS 200	4900	2450	2800	9300

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CONTACT US

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MANUFACTURING LOCATIONS

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