

# BUILT BY PROFESSIONALS FOR PROFESSIONALS

ROTORCHAMP® AIR SYSTEM  
5-30 HORSEPOWER  
ROTARY SCREW AIR COMPRESSORS

**CLEAN, DRY COMPRESSED AIR AT THE LOWEST POSSIBLE INSTALLED COST—That's the RotorChamp Air System Pledge!**

For more than 85 years, Champion has provided innovative solutions for compressed air problems. The RotorChamp Air System combines an ASME coded air receiver, a refrigerated dryer with filter/separator and a superior rotary screw compressor to produce a "plug & play" solution for your compressed air needs.

Benefits of the most complete package are:

**NEAR ZERO INSTALLATION COST** – The Air System is a compact, low center of gravity, easy-to-move package that fits through an industrial man door. No other design makes installation this easy or cost effective. Every design aspect has been addressed including the placement of forklift slots on all sides of the base.

**A SOLID FOUNDATION** – This package features a market proven RotorChamp compressor that is both quiet and energy efficient. Thousands of RotorChamp compressors are in operation worldwide. A great compressor, combined with efficient packaging, makes the RotorChamp Air System the industry leader in small compressor systems.

**THE DRIEST AIR YEAR-ROUND** – The refrigerated dryer in the RotorChamp Air System package is sized to perform. Some will cut corners in this area to reduce cost in the package, resulting in moisture-laden air that will not meet the needs of your process. Each RotorChamp Air System dryer delivers a 38°F dewpoint in accordance with Compressed Air and Gas Institute standards. We complete the system with a 3 micron, 99% efficient, Grade B coalescing separator/filter as standard equipment.

**ATTENTION TO DETAIL** – Other designs require multiple moisture drain point connections—not the RotorChamp Air System.

All drain points are connected to a common, corrosion resistant drain that terminates at the edge of the package for easy access. Single point drain connection is another way to drive the installation cost toward zero.

**BEST IN CLASS BENEFITS** – Every RotorChamp Air System package is loaded with benefits others typically do not offer.

- **Standard** five year drive motor and compressor airend warranty.
- **Standard** three valve block & by-pass system on the dryer to allow servicing without air delivery interruption.
- An integrated oil removal after-filter resulting in Grade "E" quality air is available as an option for special applications.

**SIMPLE SERVICEABILITY** – The package is designed for ease of maintenance in all aspects. Uptime is maximized by minimizing the amount of time required to perform normal service on the compressor, the refrigerated dryer and other components.



# ALWAYS EXPECT MORE FROM CHAMPION

## ROTORCHAMP 5-30 HP STANDARD EQUIPMENT

- Standard 5-year motor warranty
- Standard 5-year airend warranty upon registration
- Heavy duty inlet air filter
- Power choices: 230v/1ph, 200v, 230v, 460v, 575v/3ph
- Thermal mixing valve for oil temperature control
- Heavy duty radiator-style air-cooled oil cooler & aftercooler
- Quiet enclosure for low noise
- Factory fill of RotorLub 4000 lubricant
- Rugged refrigerated air dryer for 38°F dew-point dry air (115v/1ph/60hz separate power source)
- Three-valve, block & by-pass standard with refrigerated dryer
- UL Listed/CSA recognized electrical components and wiring

- 80 gallon ASME coded vertical air receiver
- Automatic electronic timed moisture drain in receiver (115v/1ph/60hz separate power source)
- Moisture drains piped to common drain with termination at edge of base
- Precision formed steel base allows efficient location of components

## OPTIONAL EQUIPMENT

- NEMA 4 control enclosure
- RotorLub 8000 lubricant
- RotorLub 4000FG lubricant
- TEFC Drive Motor
- ODP or TEFC Premium Efficiency Drive motor
- Oversized refrigerated dryer
- Without refrigerated dryer
- Integrated grade "E" cold coalescing filter
- Grade "G" after filter

## ROTORCHAMP SPECIFICATIONS

	STYLE MODEL HORSEPOWER	RCS5a AS EFA 5	RCS7a AS EFA 7.5	RCS10a AS EFA 10	RCS10 AS EFB 10	RCS15 AS EFB 15	RCS20 AS EFC 20	RCS25 AS EFC 25	RCS30 AS EFC 30
MOTOR DATA	Pressure-PSIG								
Nameplate HP	All	5	7.5	10	10	15	20	25	30
Service Factor	All	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Speed (RPM)	All	1800	1800	1800	1800	3600	3600	3600	3600
AIR DELIVERY (ACFM)	100	19	28	41	42	61	83	106	127
	125	16	25	36	37	54	75	96	116
	150	15	23	31	30	45	66	86	103
	175	N/A	19	27	27	40	57	74	95
NOISE LEVELS (DBA)	All	66-68	66-68	66-68	72-74.5	72-74.5	75	75	75
PACKAGE DIMENSIONS: BASE-MOUNTED W/ENCLOSURE and DRYER (IN.)	Length	83	83	83	105	105	107	107	107
	Width	32	32	32	32	32	32	32	32
	Height	76	76	76	83	83	83	83	83

Note: All data shown is approximate



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