



Worthington  
Creyssensac



AIR COMPRESSORS **ROLLAIR®**

380 - 430 - 480

# **RLR 380-430-480: Reliability and efficiency**

For years, Worthington Creyssensac is developing new products, improving their design and performances to achieve one goal: satisfy our customers' needs at the highest level.

Thanks to our focus on innovation, our products offer optimum reliability and high level of efficiency to maximize your productivity.

We also provide strong service support over the years to get the maximum of your compressors because we believe in long term relationships.

Our impact on the environment is also one of our major concerns: our logistics and manufacturing systems are optimized to reduce our ecological footprint.

Because we care of the future generations, our production facilities are ISO 9001 and ISO 14001 certified.



The ROLLAIRs 380-480 are packed in a robust and industrial canopy with straight panels. Large opening doors have been foreseen to allow easy maintenance.

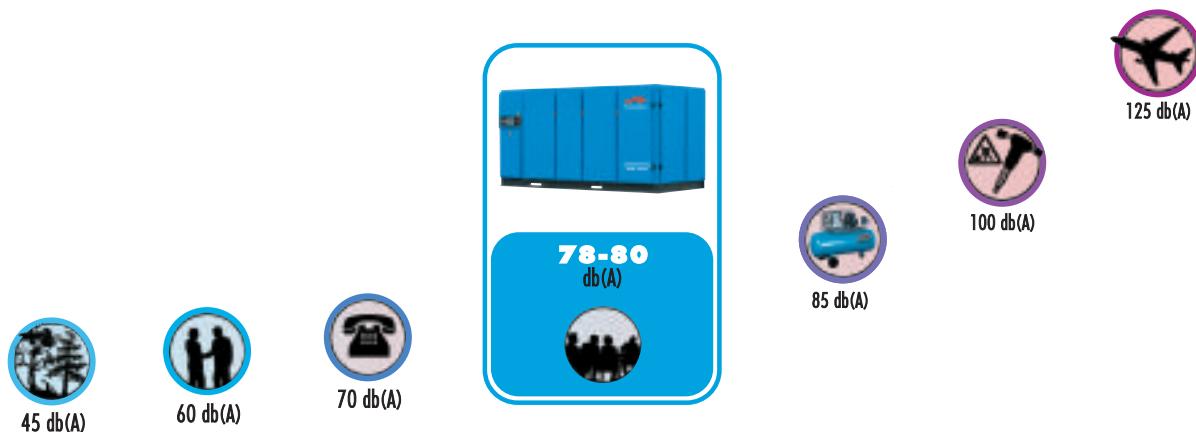
The majority of compressed air required in the industry are met with screw compressors. With a performant design and high flow capacity, the RLR 380-480 range can meet requirements of a large scope of applications: glass industries, power plant, machinery...



## EXTENDED RANGE WITH MULTIPLE VARIANTS

In that range, several sizes and variants are made available to meet our customer's requirements: RLR 380 (280kW), RLR 430 (315kW) and RLR 480 (355kW)!

Available in different pressure variant (8, 10 and 13 bar) and with low and medium voltage variants (400V/3/50, 6kV/3/50 and 10kV/3/50). All models fit in the same optimized canopy allowing flexible installation and low noise level.



## ADVANCED CONTROL SYSTEM WITH INTEGRATED FUNCTIONALITIES

All machines are equipped with an advanced controller.

Several functionalities are made available to optimize the functioning of the complete air system.



- User friendly interface for easy reading :
  - Choice of 3 languages out of 27 available
  - Integrated service schedule with automatic notification when service interval is reached
- Full monitoring system :
  - Permanent monitoring: temperature/outlet pressure
  - Faults control : High oil T°C / overload / High pressure ...
  - Automatic restart: Standard
  - Start/Stop timers: Standard, up to 8/day
- Communication possibilities
  - CAN network (up to 4 compressors) or Multilogic Box for installation with more compressors

## **OPTIMUM GEAR DRIVEN TRANSMISSION**

The selection of the transmission system is of utmost importance for the efficiency and reliability of the compressor.

The RLR 380 – 480 have a gear driven transmission. Each model is fitted with a gear ratio calculated to maximize the machine output for the given pressure and power.

Over time, the gear driven transmission has proven to be the most efficient solution. Minimum loss in long term running, no risk of misalignment, increase lifetime of the element thanks to anti-vibration pads, reduce maintenance costs... are amongst the main benefits offered by this design.

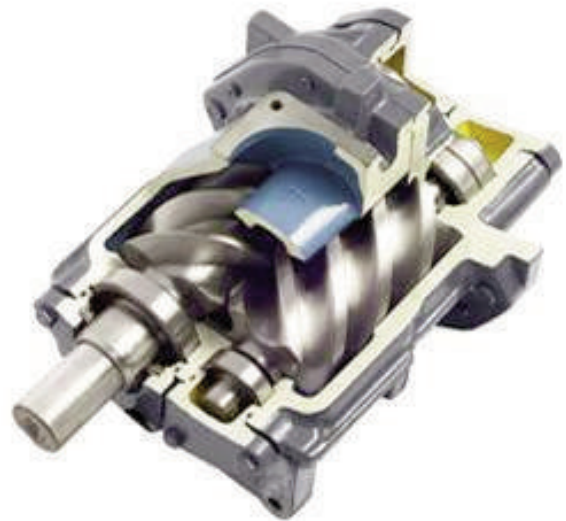


## **STATE OF THE ART COMPRESSION ELEMENT**

The profile of the rotors is a key factor that determines the efficiency of the element.

Thanks to several years of expertise, the air-ends of the ROLLAIRs are designed to operate at low speed for delivering more compressed air at same power.

The selection of high quality material (rotors, bearings...) and the continuous oil injection flow guarantee the reliability of the element over time.



## **BUILT-IN WATER SEPARATOR TO PROTECT DOWNSTREAM EQUIPMENT**

The integrated water separator device removes the moisture contains in the air. It thus ensures a high quality of air that enters the system creating additional benefits to the user.

- Reduction of the maintenance cost
- Protection of the downstream equipment
- Increase reliability of pneumatic tools.



## OPTIMUM OPERATING TEMPERATURE WITH INTEGRATED COOLING SYSTEM

The cooling efficiency of a compressor is of vital importance to ensure long term reliability and operating efficiency. An efficient heat exchanger combined with a high flow capacity fan have been selected for the RLR 380-480 range.

- Superior heat exchanger:
  - Tubular design : very reliable solution for cooling of fluid under pressure and system with temperature variation
  - Simple system, easy to maintain and repair
  - Large exchange surface
  - High thermal efficiency rate
  - Well known technology (used in several industries)
  - Compact solution
- High capacity ventilation fan:
  - Low energy consumption
  - Easy maintenance and cleaning
  - Low noise level

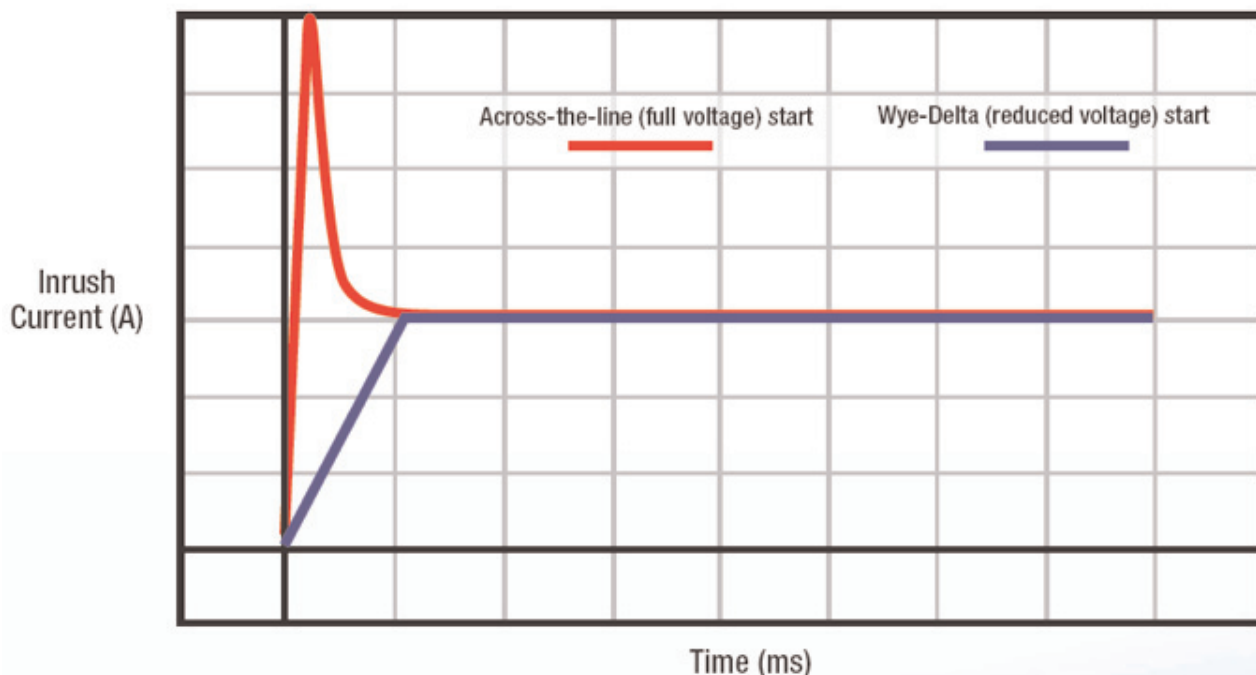


## HIGH EFFICIENCY MOTOR

The motor fitted in that range offers a high efficiency as well as a large scope of voltage (low and medium voltages). An internal fan increases the cooling capacity to obtain an optimal operating temperature.

Wye-Delta operation allows the motor to start on the wye connection and then operate on the delta connection.

This minimizes starting current demand, reduces the chance of the motor tripping the circuit and lowers the energy bill by reducing the inrush current up to 10 times compared to full voltage starting.



## PEACE OF MIND SOLUTION

Thanks to its expertise, Worthington Creyssensac has designed the machines for maximum reliability.

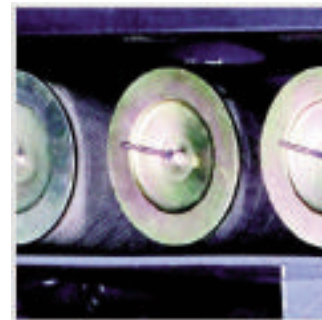
The oil separation system uses double-stage receivers with separation thanks to centrifugal forces.

The residual oil after the separation is less than 3 ppm.

The maintenance of the separator as well as the oil level checking and top up is made easy with the design of the receiver.

To avoid dust contamination and protect the internal component, an encapsulated air filter is integrated in the machines.

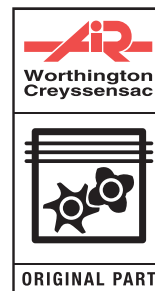
The sucked air is ducted to the air filter where all particles are stopped thus ensuring that the air entering the compressor is clean. As a consequence, the lifetime of the internal components is increased.



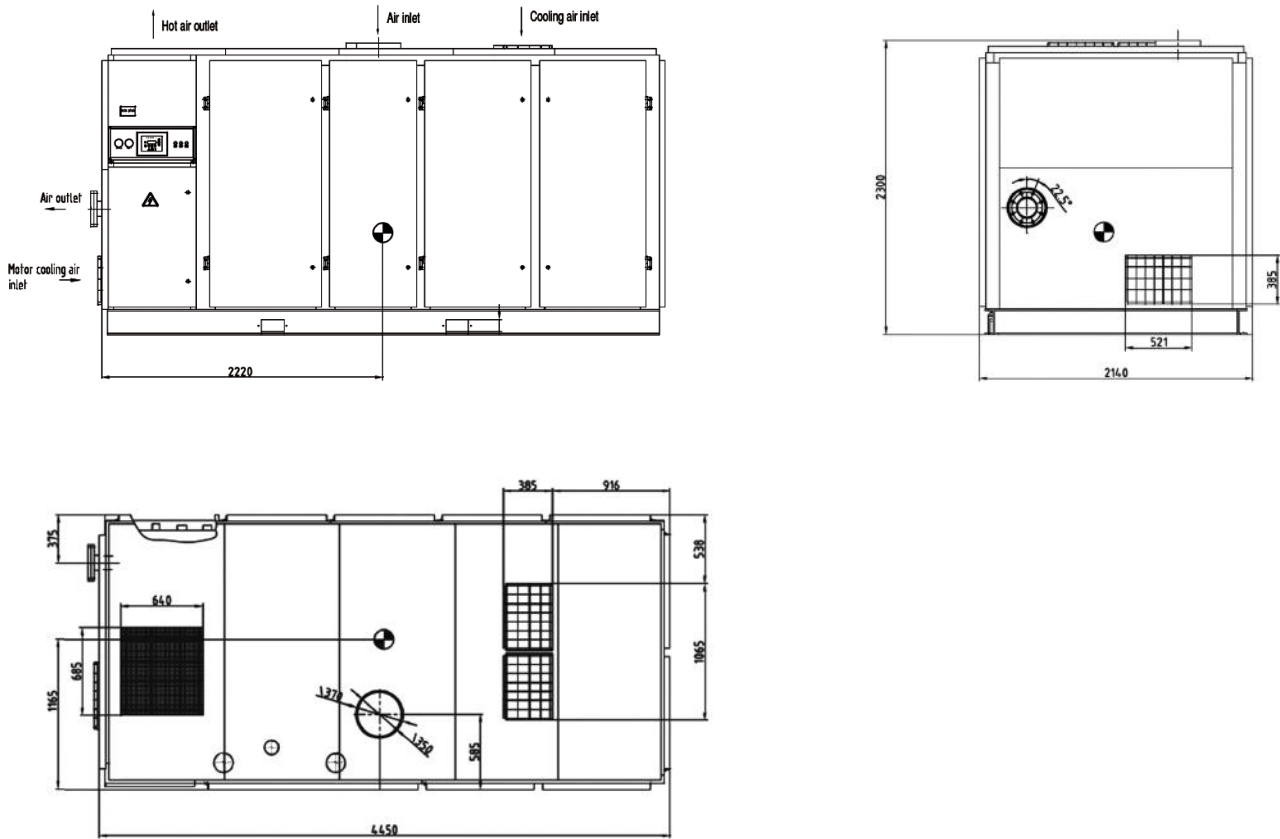
An accurate regulation is made possible with the pneumatic suction valve. The unloader design is optimized: less parts, easy maintenance and increased lifetime. A suction valve meant to last!

## LOW COST OF OWNERSHIP

- Minimized installation cost: with an optimized design, the canopy size offers a minimum footprint. The compressors include an integrated water separator avoiding additional cost for external installation. An easy access to the outlet and inlet of the heat exchanger system is foreseen.
- Minimized service cost and time: all components are selected for long lifetime even in harsh conditions. The large opening doors (on all sides of the machine) give an easy access to all components.
- Minimized energy consumption: with a superior gear driven transmission giving minimum losses and an efficient fan, the consumed power of the Rollair is kept to a minimum.



## Dimensions



## Technical Data

	Max working pressure	Max air intake temp	FAD	FAD	Nominal motor power	Noise level	Weight
	bar[e]	°C	(m <sup>3</sup> /min)	l/s	kW	CAGI-PNEUROP **	kg
<b>ROLLAIR® 380</b>							
8 bar B	8	46	47,5	793,8	280	77	6564
	10	46	40,8	680,4	280	77	6564
<b>ROLLAIR® 430</b>							
8 bar B C	8	46	54,1	903	315	79	6698
	10	46	47,4	791,7	315	77	6698
	13	46	40,6	677,2	315	77	6698
<b>ROLLAIR® 480</b>							
B C	10	46	54,1	900,9	355	79	6706
	13	46	47,2	788,5	355	77	6706

Performance measurements according to ISO 1217 ed 1996

tolerance: on delivery  $\pm 5\%$   
on specific energy  $\pm 6\%$   
on total unloaded power  $\pm 20\%$

Noise level measurement according PNEUROP PN18NTC2.2: tolerance  $\pm 2$  dB

# SHARING OUR VALUES



## **PARTNERSHIPS**

Close working partnerships form the foundation of our corporate culture. This identity has grown from our strength in developing long term partnerships with our distribution and sales networks that have local knowledge and experience to provide a total compressed air solution service, tailored specifically to our customers' requirements.

Our business approach has earned us a reputation of trust and loyalty committed to achieving success through partnership.

## **COMPETENCE**

Personnel skill development is a vital part of our success: by a continuous improvement process we improve the ability of our personnel to maintain and improve the service to our customers.

We carry this process through to our partner distributors to ensure that we create a motivated and enthusiastic team working together for the benefit of our customers.

## **EVOLUTION**

Our strategy in product and service development is based on continuous improvement of our products and services in order to meet the requirement of the market and our customers. Continued investment in the design of new products and the use of innovating technologies keep our compressed air solutions amongst the most competitive in the industry. This is our mission to guarantee the satisfaction and trust of our customers.

YOUR DISTRIBUTOR



[www.airwco.com](http://www.airwco.com)