



Worthington
Creysensac



AIR
COMPRESSORS **ROLLAIR®**

40 - 50 - 60 - 75

QUALITY FOR COMPLETE SATISFACTION

Our ambition at Worthington Creyssensac is to offer compressed air solutions that ensure maximum satisfaction to our customers. To reach this goal calls for continuous investment in our product development to ensure that we are always able to offer the most suitable solutions at peak levels of efficiency. Our ROLLAIR® 40-75 range is further proof of our know-how.



BENEFITS OF THE ROLLAIR® 40-75 RANGE AT A GLANCE

Compact design and easy service

In a footprint less than 1.6 m², we combine all the elements of a state of the art air compressor:

- high efficiency oil injected screw design
- latest inverter drive technology (option)
- fully integrated refrigerant dryer (option)

With regular maintenance, a screw compressor can often give more than 10 years serviceability. Component accessibility, durability and quality are a guarantee of a shorter payback on your ROLLAIR® investment.



1.6 m²

Low noise level

High quality components and soundproofing materials are utilised to reduce noise level to an absolute minimum, a major concern in today's industry.

Care for the environment

*Many installation possibilities
Possible installation in the workplace
with reduced piping*



ROLLAIR® V 40 - 50 - 60 - 75

Variable speed

Covering pressure band of 4-9.5 bar
or 7-12.5 bar in HP variant

ROLLAIR® VT 40 - 50 - 60 - 75

Integrated inverter and refrigeration dryer

Electronic

- Auto restart
- Phase control
- Modulating control
- Communication options of AIRLOGIC®
- LEADAIR® communication

Lubricant and servicing

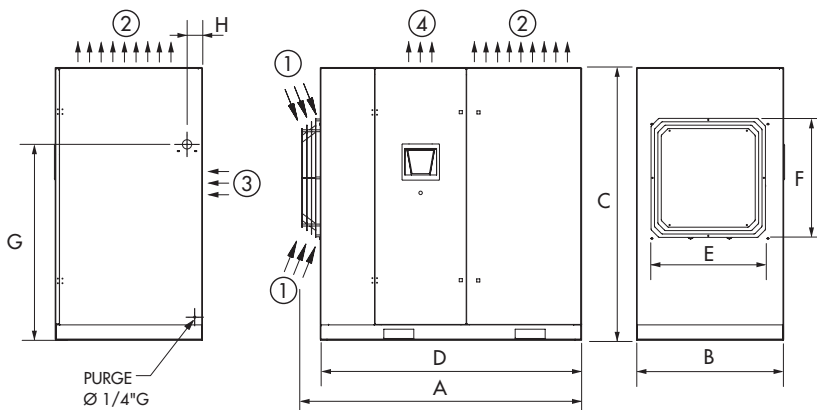
- 4000h oil
- Food grade oil
- Oil retaining frame
- AIRPlus contract

AIR+

For peace of mind and in conjunction with our AIRPlus maintenance program, we can offer you the option of a full 5-year warranty. Contact your local dealer for more details.



DIMENSIONAL REQUIREMENTS



ROLLAIR® 40 - 50 - 60 - 75

Ref.marks

A	1810
B	950
C	1760
D	1690
E	740
F	770

Air outlet

G	1268
H	100

Power supply

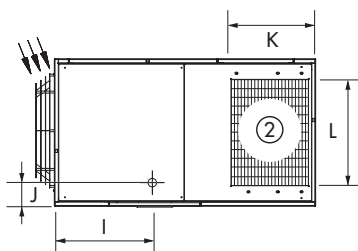
I	633
J	123

Compressed air outlet

	ROLLAIR®40	ROLLAIR®50	ROLLAIR®60-75
K	374	499	685
L	688	688	688

Ventilation :

- ① Compressor air entry
- ② Compressor air outlet
- ③ Dryer air inlet (*)
- ④ Dryer air outlet (*)



(*) only for ROLLAIR® T and VT

OPTIMISED AIR PRODUCTION

High filtration quality

The air inlet is located at high level to prevent any possible ingress of larger dust particles.

Air inlet baffles lower the air entry speed and significantly reduce the entry of dust particles. The ROLLAIR® uses a two stage encapsulated filtration system. The first is cyclonic separation to remove the larger particles. The air then passes through a second stage 2µ high efficiency filter media to ensure that only clean air enters the compression process.



Large accessibility

Regular servicing and inspection of large components can be performed easily.

- Hinged doors where required give full access to common serviceable components such as air and oil filters, etc.
- Rear panels can be easily removed to access the complete motor-element assembly.

Constant air quality

Efficient oil separation is crucial to obtain **high quality compressed air**.

The ROLLAIR® incorporates three stages of filtration:

- Cyclonic separation of bulk oil.
- Gravity separation of oil particles
- Air/oil mixture filtration through a high efficiency media.

Through this high efficiency process, minimum pressure drop and an oil carryover of less than **3ppm** is achieved.

Optimum air flow

The vertically mounting of a turbine cooling fan in the ROLLAIR® 40-75 range offers many benefits compared to a traditional axial fan:

- Low rotational speed insures efficient, reliable and quiet cooling.
- Mounting the fan above the primary source of heat, the drive motor, ensures optimum cooling even for a ROLLAIR® V running at low frequency.
- Combined with the pyramidal air inlet baffle, it is possible to fit the ROLLAIR® against a wall to further enhance noise reduction, maximise the utilisation of space and inhibit dust into the air intake.

Direct coupling: Improved efficiency and limited maintenance

Compression elements are manufactured according to stringent geometrical clearances and close tolerances giving high efficiency and reducing energy consumption.

IP55 motor

Complies with EFF1 standards. Robustness, protection against atmospheric pollution and efficient cooling are the main features that give the motor high efficiency and extended life expectancy.

Direct transmission

The direct drive set up contributes to lower energy requirements: none of the losses or regular checks associated with belt transmissions is required. The housing ensures a perfect alignment, whilst a flexible coupling avoids stress on the motor.



AIRLOGIC[®] CONTROLLER

USER FRIENDLY AND COMMUNICATIVE

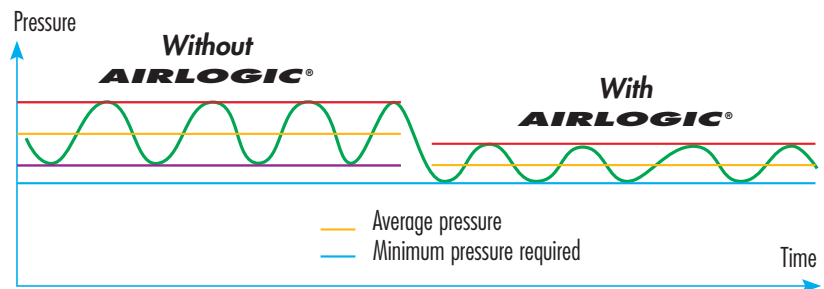
FEATURES

- Configuration of the running mode load/unload, modulation (as an option) or variable speed drive
- Fully programmable with 2 pressure band options
- Pressure assisted oil exchange
- Standard running parameters can be manually modified
- Cascade auto restart
- Remote control and fault report available
- Calculation of running time percentages for defined load levels (ROLLAIR[®] V)
- Choice of 3 languages out of 25
- LEADAIR[®] compatible

ALARM and SAFETY

- Drive motor rotation control
- Pressure drop detection across the oil separator
- Motor start up limitation
- Protection against under pressure start up
- Protection against minimum or maximum pressure levels
- Protection against over pressure in the oil receiver
- High oil temperature control
- Protection against low temperature start up
- Test of input / output
- History of defaults (5): record of input values
- Deactivation of Auto restart if required

Reducing the compressed air pressure by 1 bar can save an energy input requirement of 7%. Precise pressure control through AIRLOGIC[®] maximises these possible savings.



ALL IN ONE AIR QUALITY

To incorporate air treatment into one package, Worthington Creyssensac has developed the ROLLAIR[®] (VT), incorporating a high quality integrated refrigerant dryer within the same canopy dimensions as a standard ROLLAIR[®].

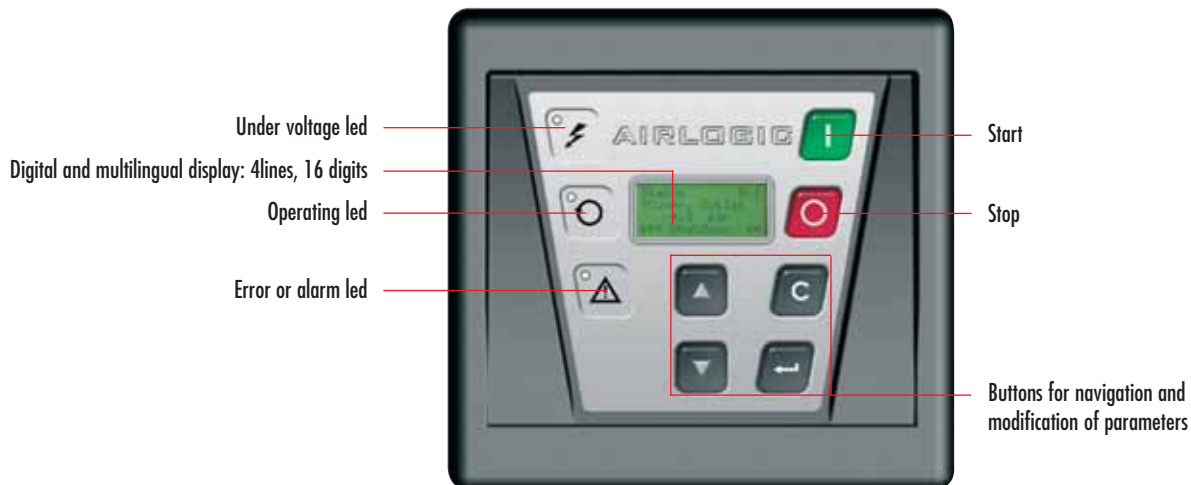
Direct expansion dryer for constant air quality

- Sized according to the full compressor capacity for constant dry air.
- Ensures accurate dew point control.
- Pre-cooling delay can be programmed to eliminate condensate from first start up.
- Independent dryer cooling for maximum efficiency
- Minimum pressure drop
- By-pass system to ensure constant air delivery

Standard water separator on ROLLAIR[®] T

- Preserve the dryer
- Improve reliability and air quality





AIRLOGIC® OPTIONS

- Multi control function: one controller can manage up to 4 compressors, equalising running across the machines (requires optional electronic key and cables)
- Optional Input/Output for management of external equipment
- Example of pressure control:
 - Network pressure
 - Network filter pressure drop

- Example of temperature control:
 - External dryer dew point
 - External cooling system temperature control
- Humidity sensor
- Motor vibration measurement
- Motor winding temperature measurement
- MODBUS communication module
- PROFIBUS communication module
- Remote control modules (intranet/internet/network/RS 485)

Simplify your air production with maximum efficiency

• Reduction of space requirements

Reduced by 66% (Both dryer and inverter are incorporated in the same canopy)

• Multiple installation possibilities

Suitable for installation in any workplace due to its remarkably low noise level

• Elimination of air leakage risks

Factory assembly and limited pipe works reduces air leakage

• Increased air quality

Precise pressure control at the outlet





Large cooling efficiency

High efficiency aluminium cooler blocks reduce air temperature to less than 10°C above ambient ensuring minimum oil temperature.

The coolers are horizontally mounted in the roof of the compressor for optimal thermal efficiency and easy access for cleaning.



THE RANGE:

ROLLAIR® 40 - 50 - 60 - 75

Load/unload regulation
7.5 - 8* - 10 - 13 (bar)

* except RLR 75.

ROLLAIR® T 40 - 50 - 60 - 75

Integrated refrigeration dryer

A large range of options for total flexibility

Whether in harsh ambient conditions, strict environmental or safety requirements, specific air quality requirements, or cost reduction through energy recovery, the ROLLAIR® range of compressors has the solution.

Dry air

- Integrated fridge dryer (1)
- Automatic capacitive drain for dryer
- Dryer transformer

Integrated filtration and treatment

- Water separator (3)
- Automatic capacitive drain for compressor (4)

Energy efficiency

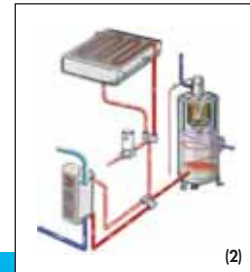
- Energy recovery (2)

Harsh ambient conditions

- Air inlet filtration panels (5)
- High efficiency air inlet filter (6)
- Oil pre heating (7)



(1)



(2)

TECHNICAL SPECIFICATIONS

Version	Working pressure bar eff.	Free Air Delivery (1)		Motor power		Acoustic level (2)	Cooling air volume		Compressed air output diameter (3)	Weight			
		m³/h	cfm	kW	hp		dB(A)	ROLLAIR®		ROLLAIR® T	ROLLAIR® V	ROLLAIR® VT	
ROLLAIR® 40													
A	7,5	335	197	30	40	65	4850	7430	1"1/2	785	885	STD:	STD:
8bar	8	316	186	30	40	65	4850	7430	1"1/2	815	915	850	950
B	10	281	165	30	40	65	4850	7430	1"1/2	815	915	HP:	HP:
C	13	230	135	30	40	65	4850	7430	1"1/2	815	915	850	950
ROLLAIR® 50													
A	7,5	414	244	37	50	66	4850	7430	1"1/2	900	1000	STD:	STD:
8bar	8	398	234	37	50	66	4850	7430	1"1/2	900	1000	905	1005
B	10	353	208	37	50	66	4850	7430	1"1/2	900	1000	HP:	HP:
C	13	281	165	37	50	66	4850	7430	1"1/2	900	1000	935	1035
ROLLAIR® 60													
A	7,5	482	284	45	60	67	6650	9230	1"1/2	975	1075	STD:	STD:
8bar	8	472	278	45	60	67	6650	9230	1"1/2	975	1075	1010	1110
B	10	432	254	45	60	67	6650	9230	1"1/2	975	1075	HP:	HP:
C	13	360	212	45	60	67	6650	9230	1"1/2	975	1075	1010	1110
ROLLAIR® 75													
A	7,5	569	335	55	75	70	9000	11580	1"1/2	1165	1265	STD:	STD:
8bar	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1215	1315
B	10	508	299	55	75	70	9000	11580	1"1/2	1165	1265	HP:	HP:
C	13	436	257	55	75	70	9000	11580	1"1/2	1165	1265	1185	1285

(1) as per ISO 1217:1996 - (2) as per CAGI PNEUROP PN8NTC2 - (3) G-thread

ROLLAIR®, AIRLOGIC® and LEADAIR® are registered trademarks of Worthington Creyssensac



40-75

Air quality

All ROLLAIR® 40-75 (V)T compressors are equipped with an integrated fridge dryer and water separator. These models offer within the same footprint as a standard ROLLAIR®, protection of your downstream equipment against corrosion and contamination caused by water contained in compressed air.

ROLLAIR® T



Integrated dryer

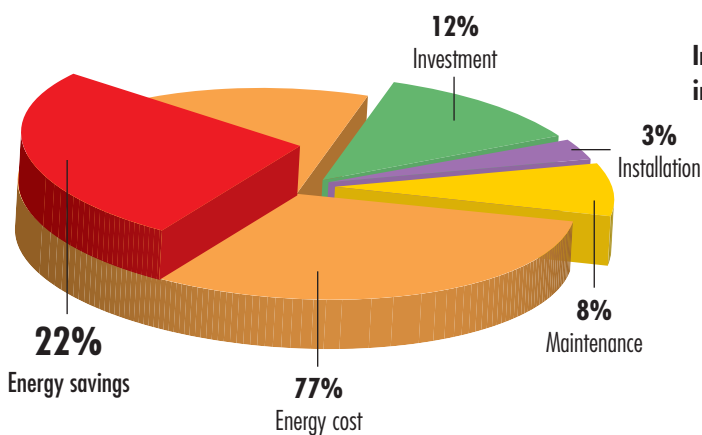
Energy savings

All Standard ROLLAIR® units are equipped with the state of the art AIRLOGIC® controller, giving optimised management of the pressure requirement and subsequent energy savings. For fluctuating air demands, our variable speed compressor, the ROLLAIR® 40-75 V is available and can offer further energy savings (up to 30%) against a standard fixed speed unit. Contact us for a payback study.

ROLLAIR® V(T)



Integrated inverter



SHARING OUR VALUES



PARTNERSHIP

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.

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