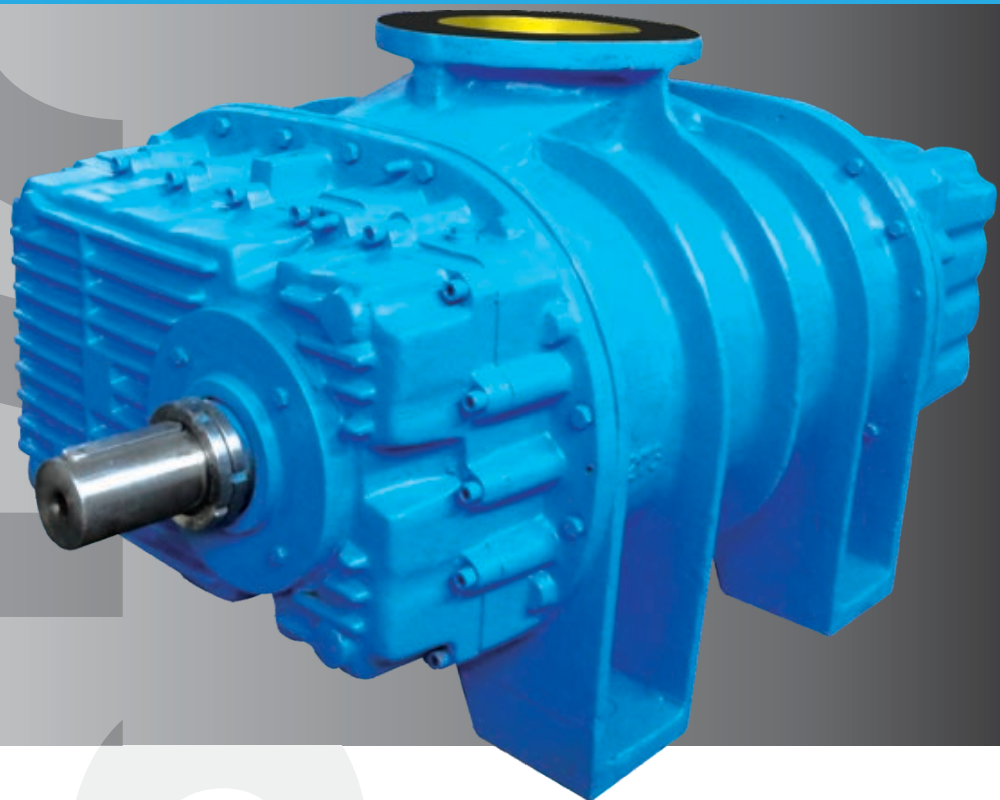


# PROAIR

TRI-LOBE ROOTS BLOWER



### PROAIR SR ROOTS BLOWERS

The PROAIR SR roots blower bare shaft machines incorporate the latest blower design. The casing is constructed of cast iron and ribbed to ensure adequate heat dispersal and increased rigidity. All rotors are dynamically balanced which reduces vibration, wear and tear on the bearings and eliminates stress fractures on the silencers.

- **DYNAMICALLY BALANCED:** The SR tri-lobe blower is dynamically balanced resulting in less noise and longer bearing life.
- **OIL FREE AIR:** Wear-resistant labyrinth seals between the air chamber and lubrication system prevent contamination of the air flow.
- **FULL WARRANTY:** All units carry a warranty against faulty materials and workmanship.
- **GUARANTEED PERFORMANCE:** All blowers are dynamically balanced and fully tested.
- **TEST CERTIFICATES:** Available on request.



### PROAIR SR-SERIE ROOTS BLOWER PERFORMANCE DATA

Model	Maximum Speed	Displacement Litres / Rev	Max Air-flow M3/hr	Max Pressure mbar
PROAIR-017 SR	4000	1.7	15-370	760
PROAIR-023 SR	4000	2.3	20-495	550
PROAIR-015 SR	4000	1.5	15-325	1035
PROAIR-035 SR	4000	3.5	35-750	1035
PROAIR-044 SR	4000	4.4	60-965	830
PROAIR-052 SR	4000	5.2	65-1140	700
PROAIR-060 SR	3500	6.0	60-1138	1035
PROAIR-069 SR	3500	6.9	100-1340	1035
PROAIR-091 SR	3500	9.1	195-1775	760
PROAIR-124 SR	3500	12.4	320-2420	550
PROAIR-113 SR	3000	11.3	240-1860	1035
PROAIR-142 SR	3000	14.2	310-2310	830
PROAIR-170 SR	3000	17.0	410-2750	700
PROAIR-160 SR	3000	16.0	340-2685	1035
PROAIR-220 SR	3000	22.0	580-3700	760
PROAIR-295 SR	3000	29.2	880-4980	550
PROAIR-272 SR	2300	27.2	700-3465	1035
PROAIR-363 SR	2300	32.3	1030-4620	1035
PROAIR-500 SR	2300	50.0	1670-6400	760



# PROAIR

## PROAIR PL SERIE ROOTS BLOWERS



### PERFORMANCE DATA

Model	Maximum Speed	Displacement Litres / Rev	Max Airflow m <sup>3</sup> /hr	Max Pressure mbar
PL 10/15 HE	4800	1.4	265	1000
PL 14/20 HE	4800	1.8	330	1000
PL 20/25 HE	4800	2.4	455	1000
PL 40/35 HE	4,800	3.3	560	1000
PL 50/50 HE	4500	5.1	752	1000
PL 60/70 HE	4500	6.8	1200	1000
PL 97/150 HE	3500	14.7	2120	1200
PL 105/180 HE	3500	17.6	2400	1000

## FEATURES AND BENEFITS:

Feature	Benefits
Three-lobe rotors	Reduces pulsations resulting in less noise and longer bearing life
Oil lubrication	Easy of maintenance
Dynamically balanced	Reduces noise, vibration and increases bearing life
Labyrinth-type sealing	Oil free air
Rotor PTFE/Carbon Inserts	Maximise airflow and efficiency Minimise energy consumption Minimise running temperatures
All units are built for universal mounting	Giving total flexibility
Fully tested	Peace of mind

## CONSTRUCTION AND COMPONENTS

Item	Material Specifications
Case	Grey cast iron EN-GJL 200
Bearing Housing	Grey cast iron EN-GSL 200 / EN-GSL 250
Rotors	Spheroidal Cast Iron EN-GJS500-7
Gears	Hardened, grinded-steel 1.7131 (14 220, 16MnCr5)
Bearings	Steel caged
Seals	Labyrinth-type



## ACOUSTIC ENCLOSURE:

- **DESIGN AND CONSTRUCTION:** High noise insulation due to fireproof coated inner surface
- **EASY MAINTENANCE:** With the help of its design, easy to open and easily reach the blower
- **MONITORING:** Indicators for monitoring the blower parameters from outside the cabin
- **VENTILATION:** With the help of independent fan running in the cabin, the heated air is discharged.





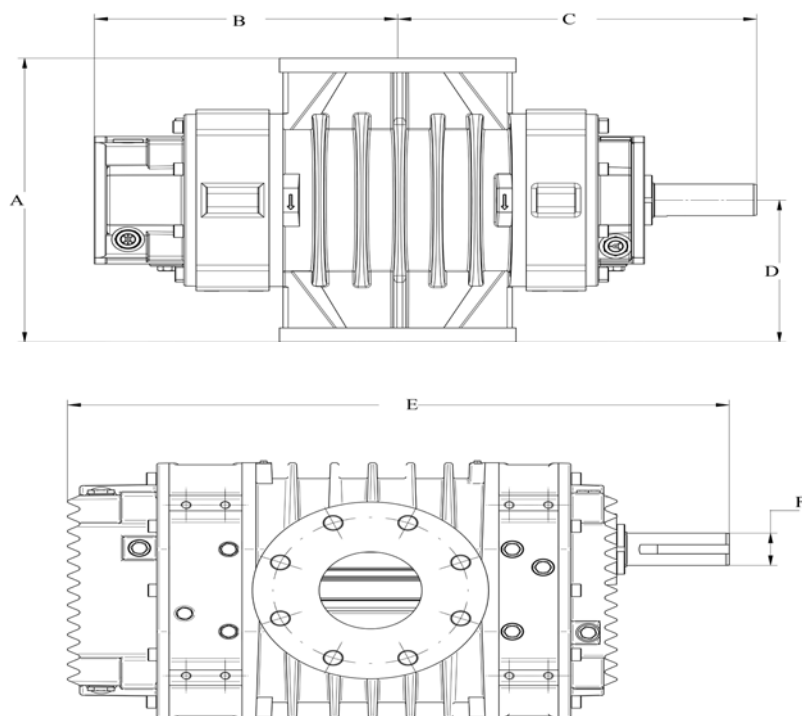
# PROAIR PROAIR PL SERIE ROOTS BLOWERS

## OIL QUANTITY:

Model	Front Cover/ Drive Side (Litres)	Rear Covers (Litres)
PL 10/15 HE	0.14	0.28
PL 14/20 HE	0.14	0.28
PL 20/25 HE	0.30	0.48
PL 40/35 HE	0.30	0.48
PL 50/50 HE	0.42	0.55
PL 60/70 HE	0.42	0.55
PL 97/150 HE	1.05	0.75
PL 105/180 HE	1.05	0.75



## PL SERIE BLOWER DIMENSIONS



Model	A	B	C	D	E	F	Ø
PL 10/15 HE	234mm	189mm	218mm	117mm	407mm	28mm	65mm
PL 14/20 HE	234mm	207mm	235mm	117mm	442mm	28mm	65mm
PL 20/25 HE	320mm	211mm	245mm	160mm	456mm	32mm	80mm
PL 40/35 HE	320mm	237mm	271mm	160mm	508mm	32mm	80mm
PL 50/50 HE	370mm	264mm	318mm	185mm	582mm	42mm	100mm
PL 60/70 HE	370mm	295mm	349mm	185mm	644mm	42mm	100mm
PL 97/150 HE	310mm	326mm	440mm	155mm	766mm	42mm	100mm
PL 105/180 HE	310mm	360mm	474mm	155mm	834mm	42mm	125mm



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