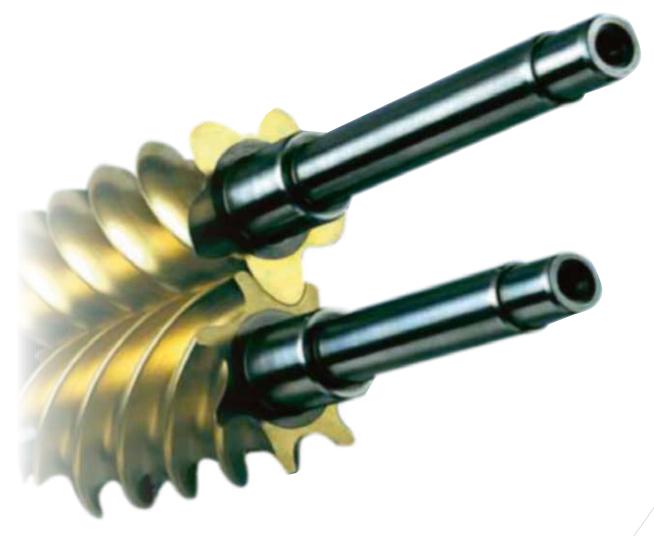


S391/S616 SCREW COMPRESSOR

Designed Exclusively for Bus Transport Applications



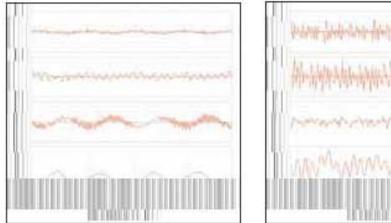
Reduced fuel consumption Reduced maintenance Low installation cost Unmatched reliability Whisper-quiet operation

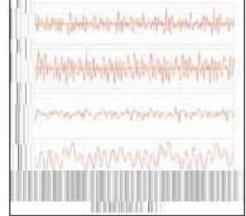


Take a closer look.

S391

Lower acceleration vibration and torque fluctuation than any other transport compressor.



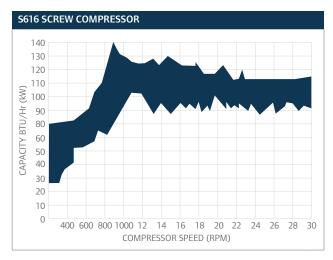


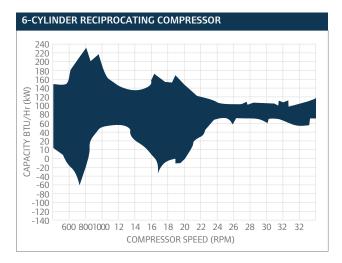
S391 Screw Compressor

6-Cylinder Reciprocating Compressor

S616

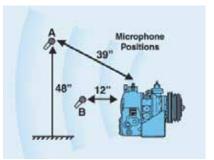






Actual laboratory tests reveal dramatic noise reduction

COMPRESSOR	MICROPHONE POSITION	SPEED (RPM)	NOISE LEVEL (DBA)
Screw	A (39″)	1400	79.0
6 Cyl. reci.	A (39″)	1400	87.5
Screw	B (12″)	1400	87.2
6 Cyl. reci.	B (12″)	1400	89.5
Screw	A (39″)	2200	87.9
6 Cyl. reci	A (39″)	2200	88.7
Screw	B (12″)	2200	91.3
6 Cyl. reci	B (12″)	2200	92.7

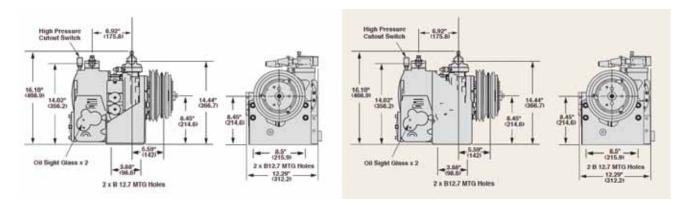


Specifications

S391		S616	
Туре	Helical Lobed Screw	Туре	Helical Lobed Screw
Displacement	23.86 cu. in./rev. (391 cu. cm/rev.)	Displacement	37.59 cu. in./rev. (616 cu. cm/rev.)
Refrigerant	HFC (R-134a or R-407C)	Refrigerant	HFC (R-134a or R-407C)
Oil separator	Integrated	Oil separator	Integrated
Oil sump	Integrated, on discharge side	Oil sump	Integrated, on discharge side
Oil charge	1.8 liter	Oil charge	1.8 liter
Oil type	POE SOLEST 120	Oil type	POE SOLEST 120
Oil filter	Integrated full-flow	Oil filter	Integrated full-flow
Max tilt	10 degrees any direction	Max tilt	10 degrees any direction
Drive Method	Belt or direct	Drive Method	Belt or direct
Max belt side loading	136 kg	Max belt side loading	136 kg
Maximum BHP (R-407C)	35 hp at 450 psi discharge and 100 psi suction @ 3000 rpm	Maximum BHP (R-407C)	41 hp at 450 psi discharge and 100 psi suction @ 3000 rpm
Maximum BHP (R-134a)	24 hp at 350 psi discharge and 65 psi suction @ 3000 rpm	Maximum BHP (R-134a)	28 hp at 350 psi discharge and 65 psi suction @ 3000 rpm
Maximum speed	3000 rpm	Maximum speed	3000 rpm
Maximum discharge temperature	148°C	Maximum discharge temperature	148°C
Maximum operating pressure	350 psig (R-134a) 450 psig (R-407C)	Maximum operating pressure	350 psig (R-134a) 450 psig (R-407C)
Weight	66.8 kg (including oil, service valves and clutch)	Weight	77.2 kg (including oil, service valves and clutch)

Dimensions S391 (mm)

Dimensions S616 (mm)



WARRANTY SUMMARY

Terms of the Thermo King Warranty are available on request from your local Thermo King dealer. Please reference document TK50049 for the Thermo King Bus Unit Warranty.

Ingersoll Rand Alma Court Building - Lenneke Marelaan 6, B-1932 Sint-Stevens-Woluwe, Belgium.

The new standard for reliability. Innovative features, inside and out.

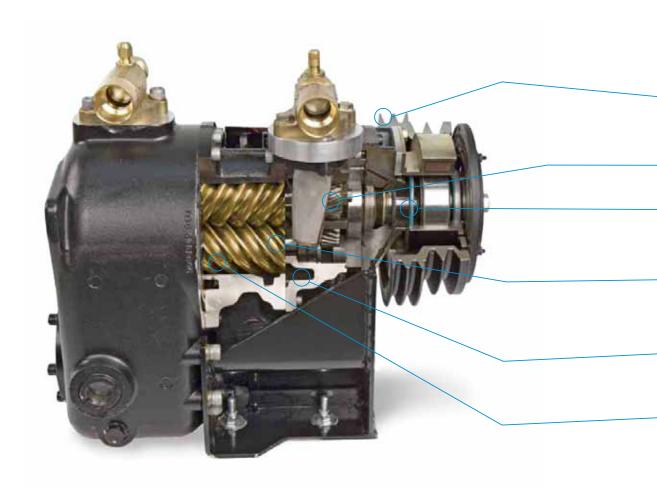
Revolutionary benefits.

- \cdot Reduced fuel consumption
- Reduced maintenanceLow installation cost
- Whisper-quiet operation
- Enhanced serviceability
- Increased rider comfort
- Unmatched reliability
- Thermo King quality & service

Body-mounted clutch

Minimizes stress and wear from side loading Rolling element antifriction bearings Withstands a wide range of lubrication conditions No sleeve bearings Oil separator Integrated, no external plumbing Oil filter Low micron filtering Full-flow oil filter with automatic bypass function Unloaders

Programmable two-stage unloading True capacity control saves fuel

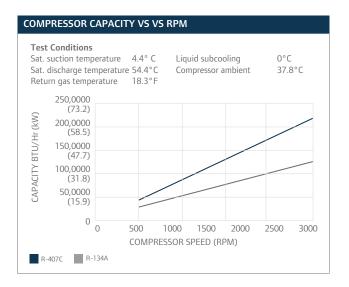


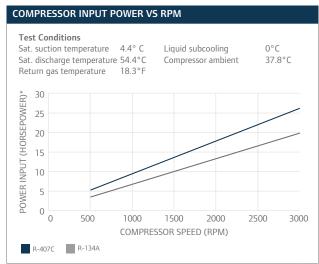


- Epoxy sealed clutch coil
Reliable electromagnetic design
Gears
Precision-ground helical gears for quiet, smooth operation
Metal bellows shaft seal
Eliminates carbon graphite seal face
Eliminates rubber bellows
Rotors
Precision manufactured by Thermo King to practically zero
clearance between concave and convex rotors
Unique oil
Management system With no internal plumbing All passages
machined
- Rotary screws
Only two parts needed to compress gas

Greater efficiency means more capacity with less horsepower and less fuel used.

S391





S616

