Next generation of innovative design
Screw compressor dedicated to
R134a, R513A, R1234ze
R450A, R1234yf

High COP & IPLV Model
RE Series
Screw Compressor

MICRO CONTROL SYSTEMS
Authorized North America Distributor

Highlights of RE Series Screw Compressor

Innovative Screw Rotor Profile

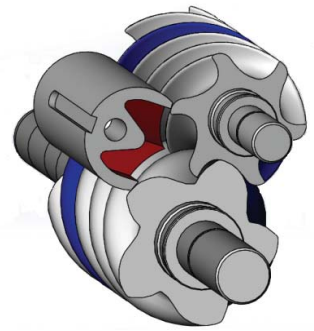
- New profile patented in Taiwan, USA, UK, and China
- Low power consumption at variable capacity load results in high energy efficiency
- Hyper volumetric efficiency
- Excellent duribility and reliablilty

High-efficiency Motor

- Optimized motor for R134a and HFO. RE-A for water-cooled chiller, RE-B for air-cooled chiller and high ambient temperature environment
- Available with part-winding or star-delta starter
- Custom-made on specified voltage and frequency
- Self-cooling by refrigerant flow
- Semi-hermetic sliding-fit, easy service

Durable Bearing Structure

- High-quality bearings (radial and axial resistance)
- Additional bearings for backward rotation
- Heavy-duty design

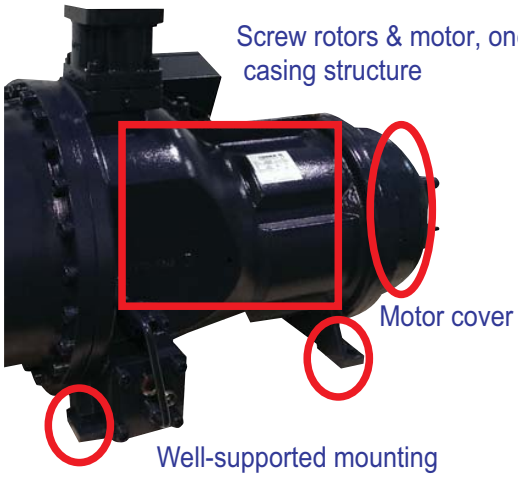


Optimized Volum Ratio Flexibilty

- Built-in volume ratio (Vi) : 2.2, 2.6, 3.0, 3.5, 4.4
- Avoid over or under compression results in high energy efficiency
- Special design for part-load efficiency (IPLV)
- Suitable for a variety applications and conditions. No compromise on achieving high energy efficiency

High-performance Integral Oil Separator

- Inbuilt demister and flange-on oil tank
- Finest oil-separation
- Minimum pressure drop and oil carry-over



Superior Capacity Control Mechanism

- Optimal layout with fully support on slide valve
- Latest robust structure on piston rod and slide valve during capacity modulation
- Precise capacity control and reliabilty

Compact and Robust Body

- Small compressor footprint of one-piece casing sturucture
- Ribbed casing provides high stiffness and rigidity
- Well-supported mounting
- Dedicate inner refrigerant flow path with minimum pressure drop

Complete Protection & Accessories

1. Motor temperature sensor
   - "Built-in" Pt1000 (standard) or Pt100 (optional) temperature sensor in motor winding
   - Motor temperature can be read accurately
   - Controller can precisely initiate liquid injection to motor
2. Discharge Temperature Thermistor & Motor Temperature Thermistor
   - Totally integrated
   - Effectively protect compressor in advance when any abnormal alarm occurs
3. Optical Oil Level Switch (optional)
   - Ensure sufficient lubricant in compressor for better lubrication, capacity control, cooling and sealing
4. Heater
   - Increase lubricant flow ability when compressor restarts after long-term stop
   - Avoid refrigerant mixed with the oil under low ambient temperature
5. Safety valve (optional)
   - Intergrated inside compressor body
   - Bypass gas to low pressure side at any abnormal high pressure occurrence

Compressor Nomenclature

RE - XXX X X

- P: Side Discharge Without Demister
- Motor Code A = R134a, HFO / HFO blends (water-cooled application)
  B = R134a, HFO / HFO blends (air-cooled & heat-pump application)
- Displacement at 50Hz (m^3/hr)

Technical Data

MODEL	COMPRESSOR					MOTOR					LUBRICANT CHARGE	WEIGHT
	Displacement 60Hz	Rated Speed	Vi	Cap. Control (%)		Nominal Hp		Starting	Voltage (V)			
	CFM	60 Hz		Step	Stepless	60Hz A	60Hz B		60Hz A	60Hz B	L	LBS
RE-230A(P) / B(P)	165	3550	2.2	25, 50, 75, 100	25~100	56	76	Y-Delta PWS DOL	220 460	220 460	14	838
RE-260A(P) / B(P)	188					63	82				16	970
RE-300A(P) / B(P)	218					69	97				16	1058
RE-340A(P) / B(P)	249					80	107				16	1212
RE-380A(P) / B(P)	277		2.6			75	122				16	1257
RE-420A(P) / B(P)	295		3.0			96	132			460	16	1323
RE-480A(P) / B(P)	341					108	146				17	1389
RE-550A(P) / B(P)	392		3.5			132	166				19	1477
RE-620A(P) / B(P)	443		4.4			146	197	Y-Delta DOL	460		23	1918
RE-710A(P) / B(P)	504					166	214				26	2028
RE-820A(P) / B(P)	581					197	233				28	2315
RE-920A(P) / B(P)	654					214	258				28	2502

Application Limits