

Next generation of innovative design  
Screw compressor dedicated to  
R134a, HFO / HFO blends

# High COP & IPLV Model RE Series Screw Compressor



# 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 durability and reliability

## 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

## Optimized Volum Ratio Flexibility

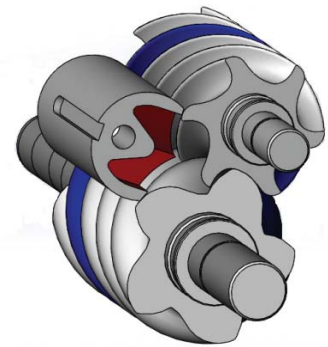
- Built-in volume ratio (Vi) : 2.2, 2.6, 3.0, 3.5, 4.4
- Avoid over or under compression results in high energy efficiency
- Special design for part-load efficiency (IPLV)
- Suitable for a variety applications and conditions. No compromise on achieving high energy efficiency

## High-performance Integral Oil Separator

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

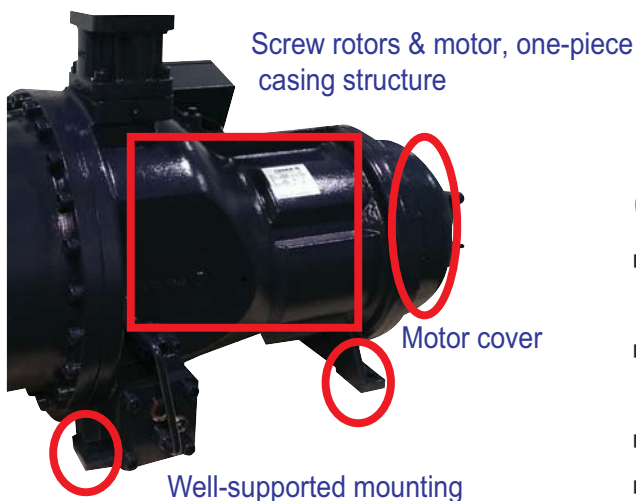
## Durable Bearing Structure

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



## 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 reliability



## Compact and Robust Body

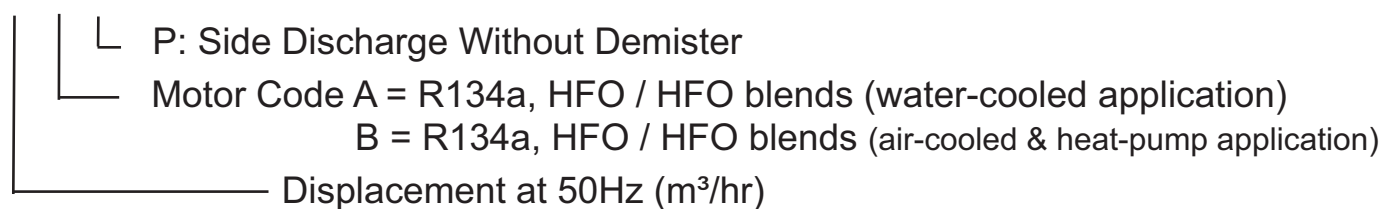
- Small compressor footprint of one-piece casing structure
- Ribbed casing provides high stiffness and rigidity
- Well-supported mounting
- Dedicate inner refrigerant flow path with minimum pressure drop

## 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

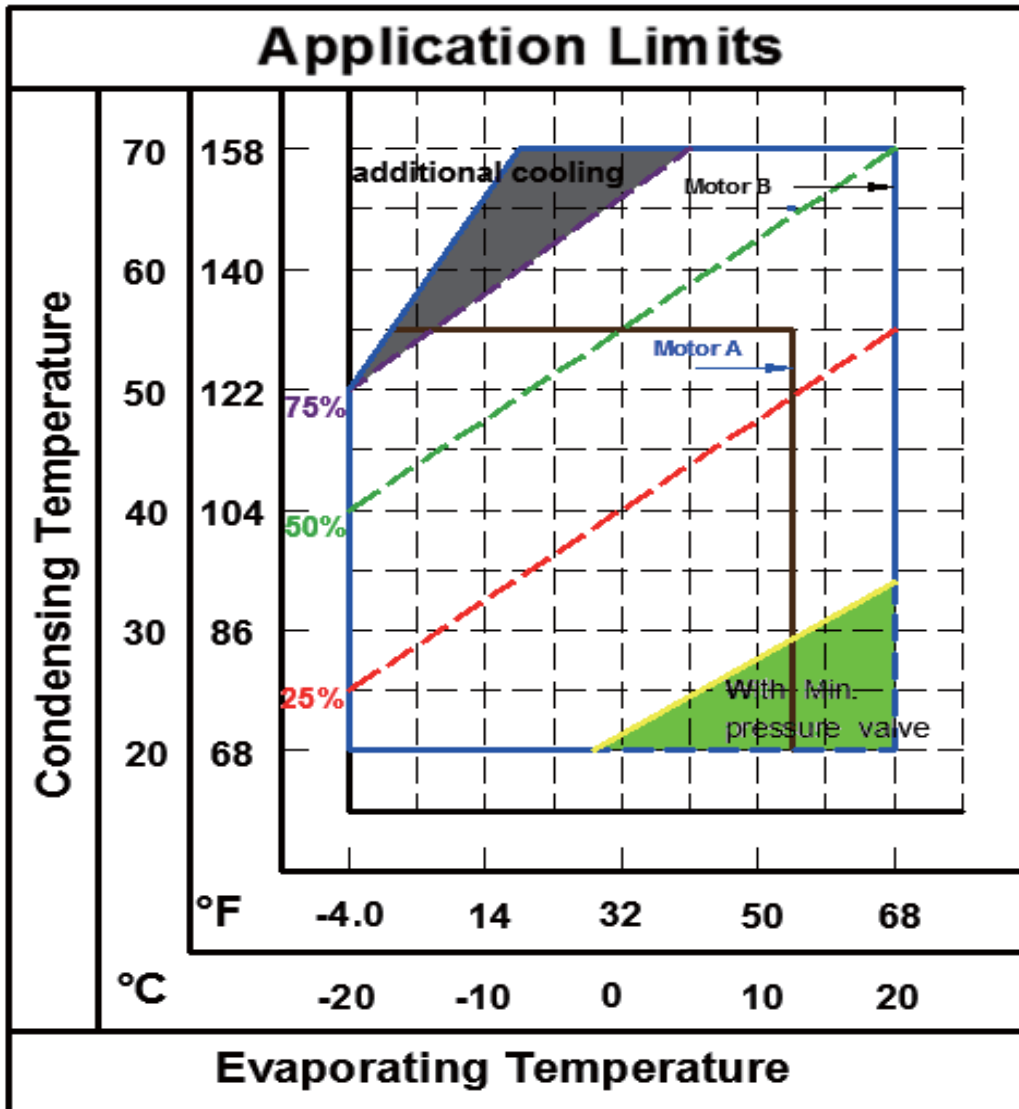
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## Technical Data

MODEL	COMPRESSOR					MOTOR				LUBRICANT CHARGE	WEIGHT				
	Displacement	Rated Speed	VI	Cap. Control (%)		Nominal Hp		Starting	Voltage (V)						
	60 / 50Hz m <sup>3</sup> /hr			60 / 50Hz	Step	Stepless	60Hz (A/B)		50Hz (A/B)	60Hz	50Hz	L	kg		
RE-230A(P) / B(P)	280/232	3550/2950	2.2	25, 50, 75, 100	25~100	56/76	46/63	Y-Delta	380	380	14	380			
RE-260A(P) / B(P)	320/266					63/82	52/68				16	440			
RE-300A(P) / B(P)	369/307					69/97	58/80				16	480			
RE-340A(P) / B(P)	423/351		80/107			67/89	PWS	440			400	16	550		
RE-380A(P) / B(P)	471/391											75/122	90/101	16	570
RE-420A(P) / B(P)	501/417											96/132	80/110	16	600
RE-480A(P) / B(P)	579/481		108/146			90/122	DOL	460	415	17	630				
RE-550A(P) / B(P)	666/554									132/166	110/138	19	670		
RE-620A(P) / B(P)	752/625									146/197	122/164	Y-Delta	480	23	870
RE-710A(P) / B(P)	857/712		166/214			138/178	26	920							
RE-820A(P) / B(P)	987/820		197/233			164/194	DOL	480	415	28	1050				
RE-920A(P) / B(P)	1112/924									214/258	178/215	28	1135		

# Application Limits



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