

High IPLV and SEER design  
Screw compressor dedicated to  
R134a, R513A, R450A  
R1234ze and R1234yf

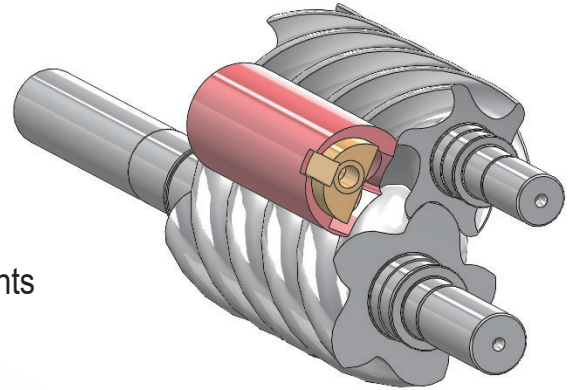
# Variable Volume Ratio RE-VI Series VFD Screw Compressor



# Highlights of RE-VI Compressor Features

## Variable Compression Ratio

- Remarkable dual slide valve mechanism
- Designed for water-cooled and air-cooled chillers
- Volume ratio variable and exactly match working lift
- No loss of work due to over- or under-compression
- Exceptional partial load efficiency, great energy saving



## VFD Capacity Control

- Near-zero inrush current to motor and electronic components
- Quickly respond to cooling load
- Precisely control of chilled liquid temperature
- Varying motor speed, use the power that necessary
- Less starting torque, increase electric motor life cycle

## Advanced Screw Rotor Profile

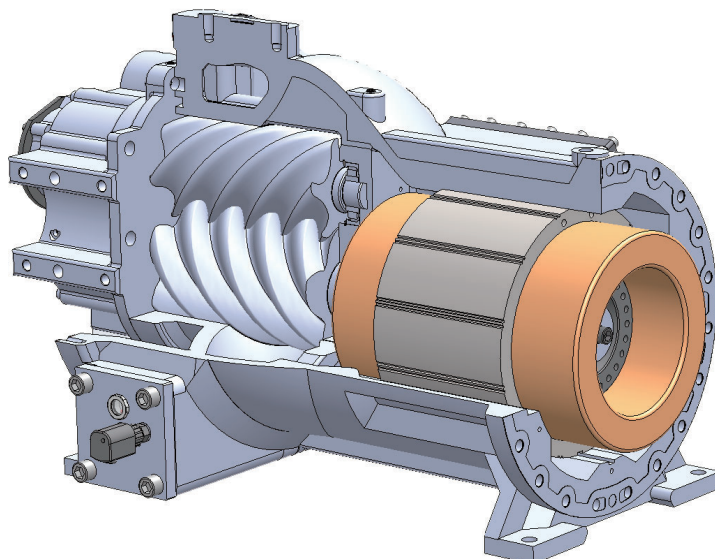
- Large displacement with short sealing line
- Compact in size with hyper volumetric efficiency
- Small torque transmission and low frictional loss

## Low Oil Carry-over Separator

- Finest 3-step oil separation with minimum pressure drop
- Low carry-over, great heat transfer efficiency
- Simple but highly reliable oil separation

## Quiet Operation, Low Vibration, Long Compressor Life

- Dedicated oil circuit to cool and lubricate bearings and rotors
- Sturdy compressor mounting and compression chamber
- Comprehensive protection devices

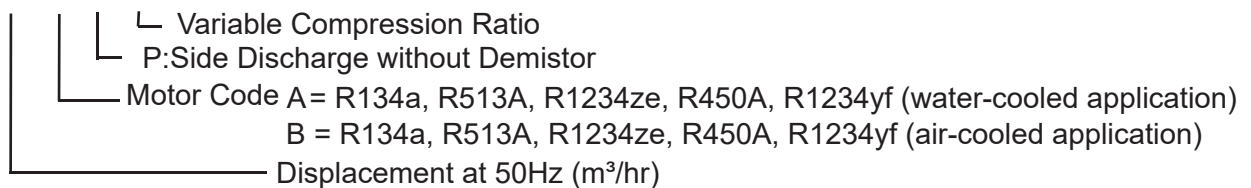


## Compressor Protection & Devices

- Motor winding temperature protection
- Discharge temperature protection
- INT69HBY protector module
- Optical oil level switch
- Oil filter with replaceable cartridge
- Insulated oil heater
- Internal pressure relief valve
- Non-return valve and service stop valve
- Nitrogen protective charge
- IP54 Terminal box
- Minimum pressure valve (optional)
- Pressure differential switch (optional)
- Oil flow switch (optional)
- Liquid injection to motor expansion valve (optional)

## Compressor Nomenclature

RE - xxx x x VI

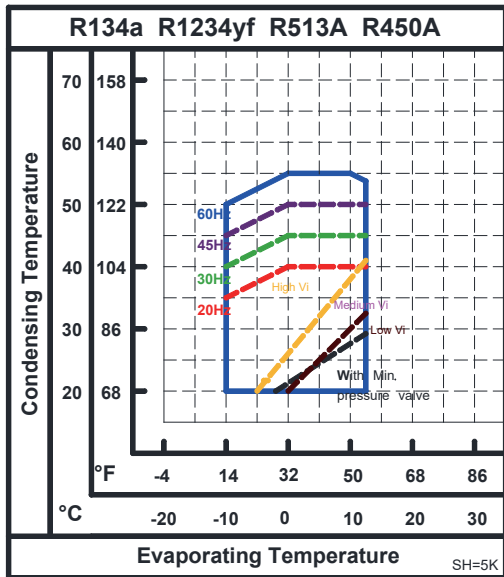


## Technical Data

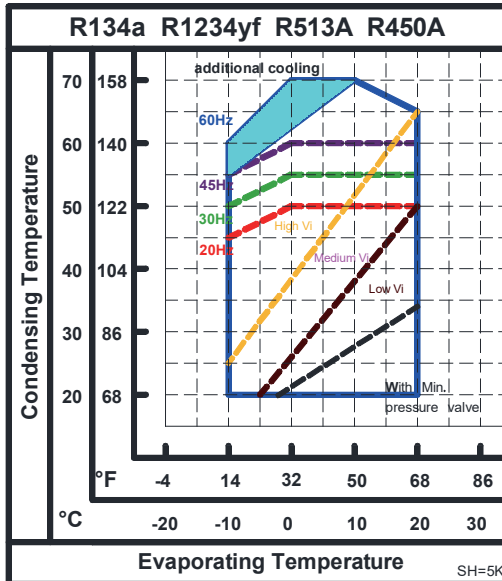
MODEL	COMPRESSOR			MOTOR			LUBRICANT CHARGE	WEIGHT	
	Displacement at Max. speed	Speed Range	Vi Control	Nominal Hp at Max. speed		Motor Starter			Voltage (V) at Max. speed
	m <sup>3</sup> /hr	Hz		A	B				
RE-300AVI/ BVI	369	20~60	Low Medium High	70	97	VFD	380 ~ 480	16	480
RE-340AVI/ BVI	423			80	108			16	550
RE-380AVI/ BVI	471			90	122			16	570
RE-420AVI/ BVI	501			97	146			16	600
RE-480AVI/ BVI	579			107	166			17	630
RE-550AVI/ BVI	666			131	185			19	670
RE-620AVI/ BVI	752			146	215			23	870
RE-710AVI/ BVI	857			166	233			26	920
RE-820AVI/ BVI	987			196	257			28	1050
RE-920AVI/ BVI	1112			215	298			28	1135

# Application Limits

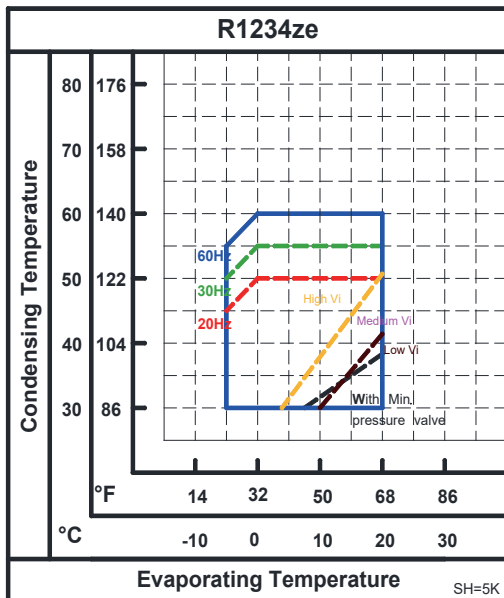
RE-AVI



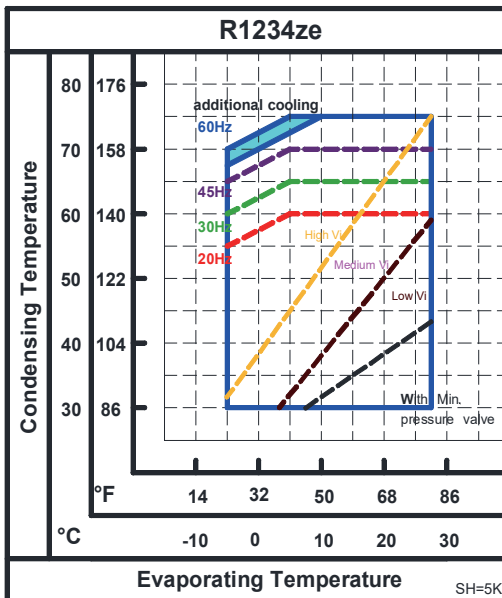
RE-BVI



R1234ze



R1234ze



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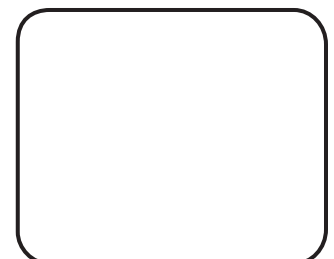
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