

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

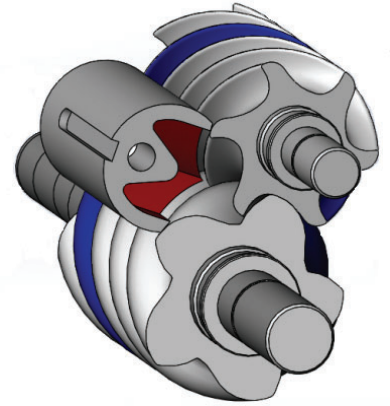
Variable Volume Ratio RE-V Series VFD Screw Compressor



Highlights of RE-V Compressor Features

Innovative Screw Rotor Profile

- Large displacement with short sealing line
- Compact in size with hyper volumetric efficiency
- Remarkable COP/EER performance and seasonal IPLV/ESEER
- Small torque transmission and low frictional loss
- Designed for certification of ASHRAE 90.1, EU 2016/2281, ISEER 2022



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

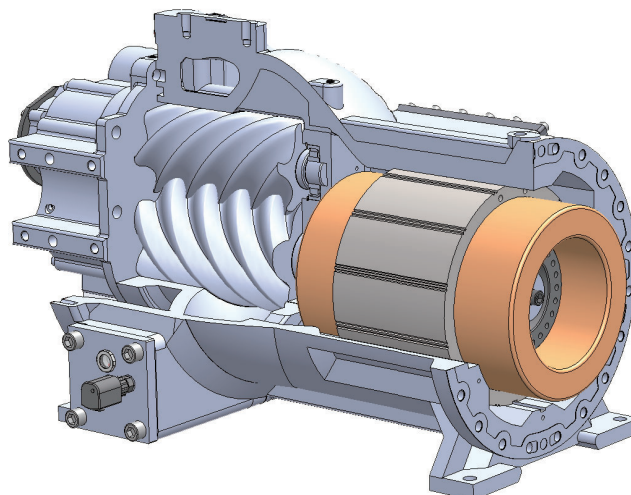
- Large displacement with short sealing line
- Compact in size with hyper volumetric efficiency
- Small torque transmission and low frictional loss

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

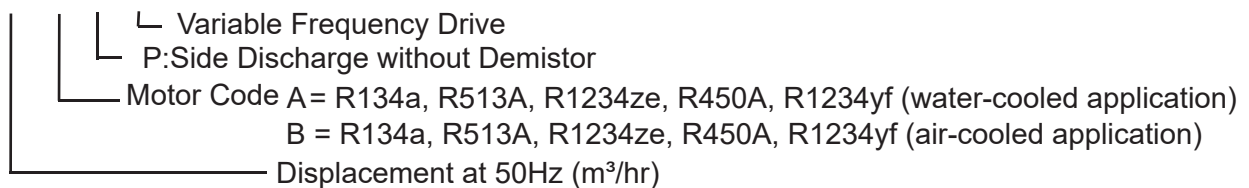


Compressor Protection & Devices

- 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 V

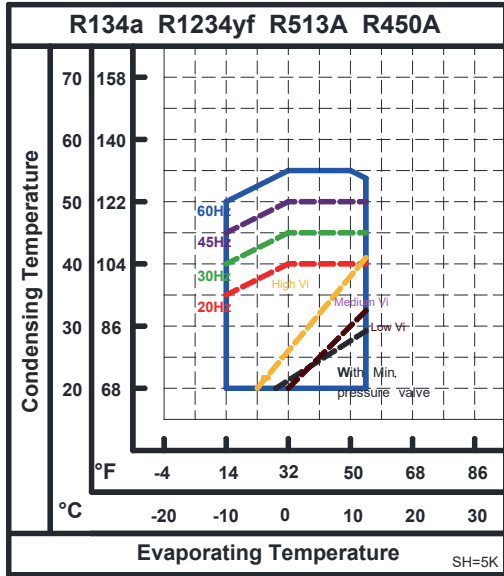


Technical Data

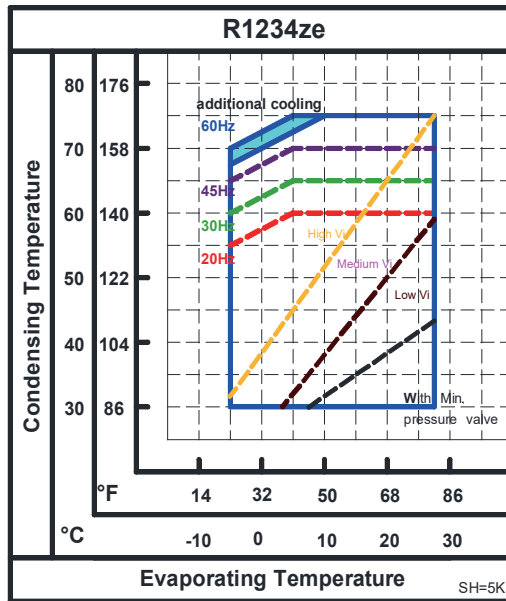
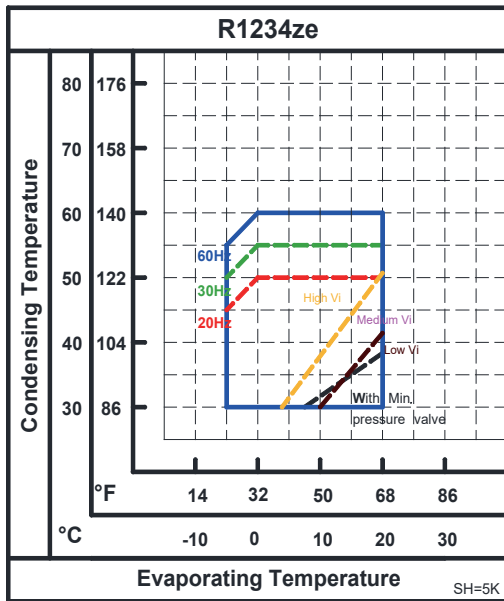
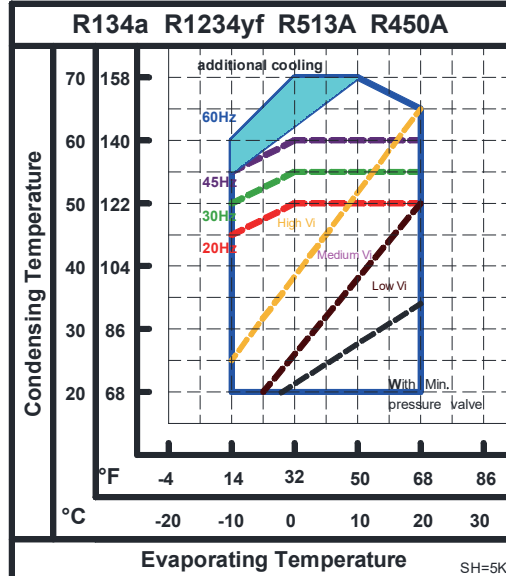
MODEL	COMPRESSOR			MOTOR			LUBRICANT CHARGE	WEIGHT	
	Displacement	Speed Range	Vi Control	Nominal hp		Motor Starter			Voltage (V)
				A	B				
RE-230A(P)V/ B(P)V	280	20~70	2.2	56	74	VFD	380 ~ 480	14	380
RE-260A(P)V/ B(P)V	320			63	82			16	440
RE-300A(P)V/ B(P)V	369			70	97			16	480
RE-340A(P)V/ B(P)V	423			80	108			16	550
RE-380A(P)V/ B(P)V	471		2.6	90	122			16	570
RE-420A(P)V/ B(P)V	501			97	146			16	600
RE-480A(P)V/ B(P)V	579			107	166			17	630
RE-550A(P)V/ B(P)V	666		3.0	131	185			19	670
RE-620A(P)V/ B(P)V	752			146	215			23	870
RE-710A(P)V/ B(P)V	857		3.5	166	233			26	920
RE-820A(P)V/ B(P)V	987			196	257			28	1050
RE-920A(P)V/ B(P)V	1112			215	298			28	1135
RE-1050A(P)V/ B(P)V	1254			241	322			40	1480
RE-1150A(P)V/ B(P)V	1374		4.4	264	354			40	1500
RE-1270A(P)V/ B(P)V	1556			290	426			40	1660
RE-1400A(P)V/ B(P)V	1657			321	474			40	1800

Application Limits

RE-AV



RE-BV



To apply the refrigerant not listed above, please contact Hanbell for application guide.



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