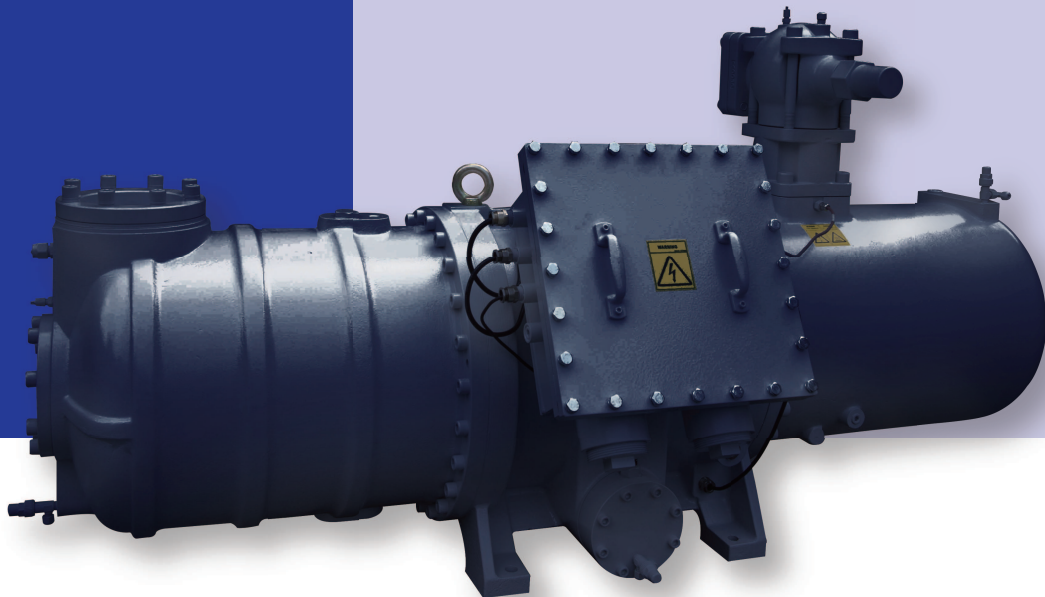


New explosion-proof
Screw compressor dedicated to
HFC, HCFC, flammable gases
such as isobutene and propane
in a hazardous atmosphere

Explosion-proof Model RC2-ExP Series Screw Compressor

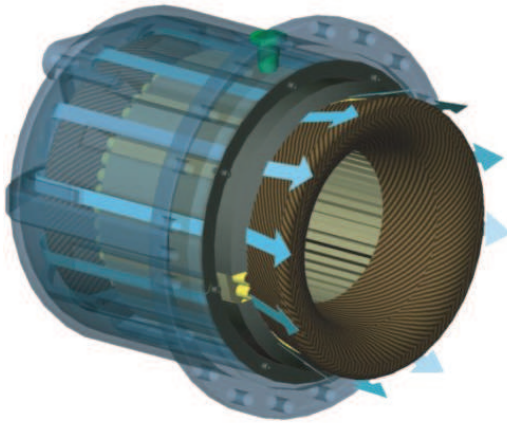


TD040055

Highlights of RC2-ExP Series Screw Compressor

ATEX and IECEx Certified Screw Compressor

- Complied with ATEX II2G Ex d IIB T4 Gb
- Designed according to ATEX 2014/34/EU directive EN 60079-0/ EN 60079-1/ EN 13463-1/EN 13463-5

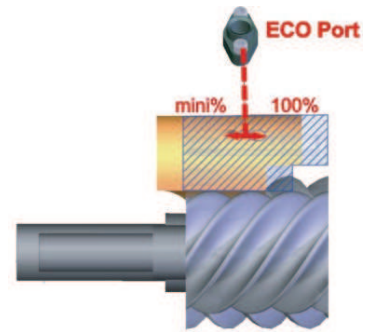


High-efficiency Motor

- Available for part-winding (PWS) or Star-deltas(Y-Δ) start
- Custom-made for specified voltage supply and VFD application
- Semi-hermetic motor design with cooling by refrigerant flow
- Optimized motor cooling with cooling path on casing
- Easy installation and removal with sliding-fit motor stator

Effective Economizer (Sub-cooler) Operation

- Higher cooling capacity at full-load as well as at part-load
- Effective vapor injection with optimum medium pressure



High-efficiency Screw Rotor Profile

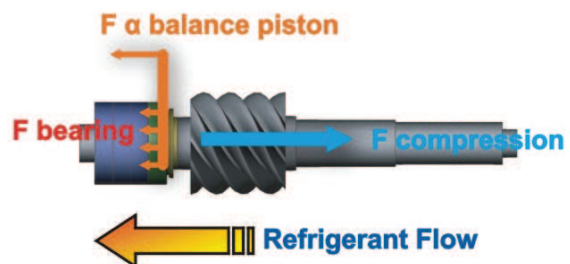
- 5-to-6 rotor profile patented in Taiwan, US, UK, and China
- Designed according to characteristics of refrigerants
- Hyper volumetric efficiency and optimum clearance

Capacity Control

- Explosion-proof solenoid coil
- 4-step or continuous (25%~100%) automatic capacity control

Durable Bearing Structure

- High-quality bearings (radial and axial resistance) for heavy-duty design
- Alpha balance piston against axial thrust



ATEX classification

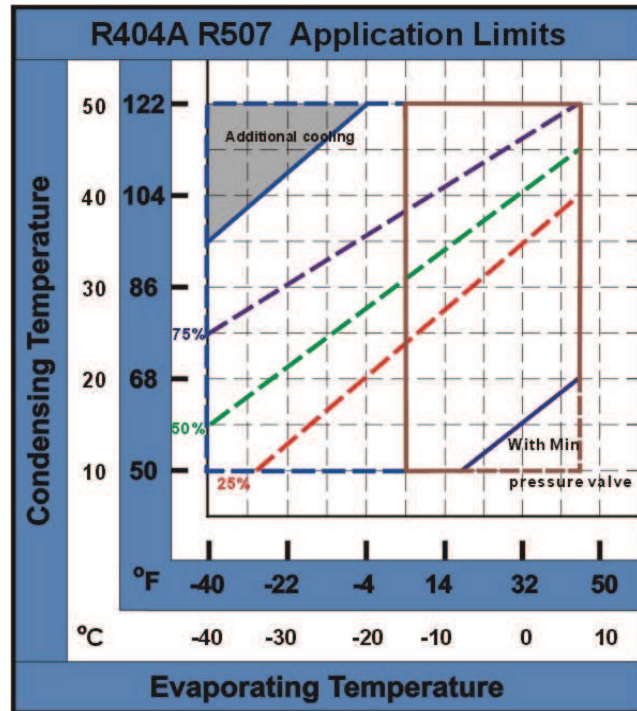
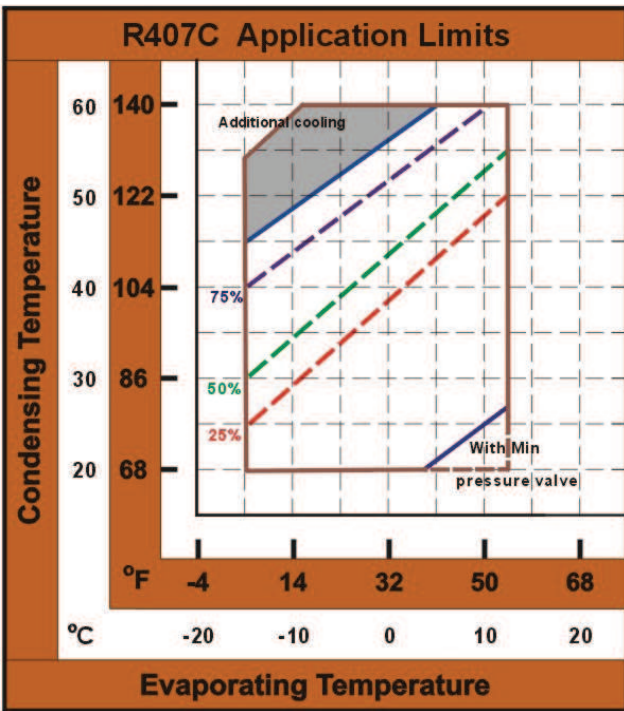
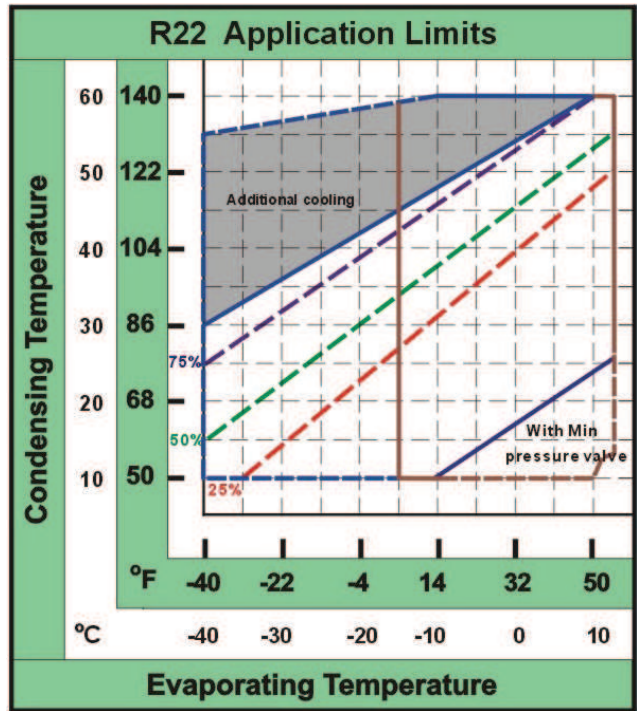
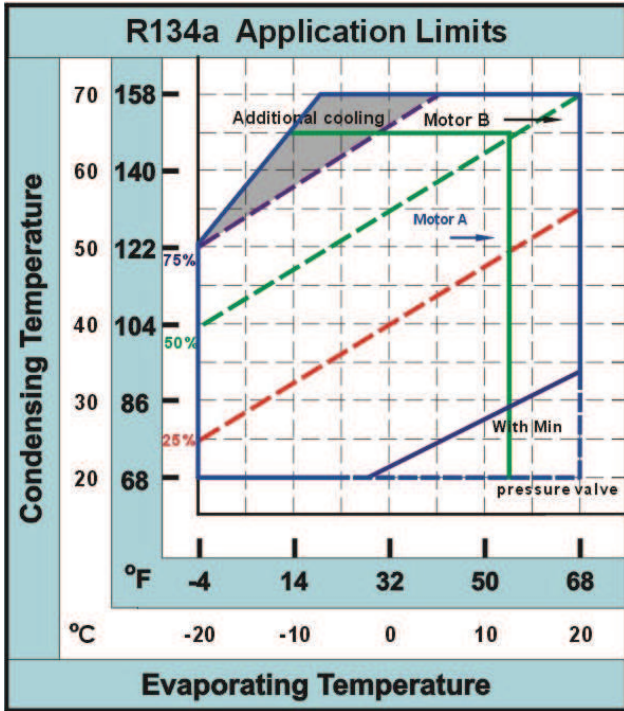

II 2 G Ex d IIB T4 Gb
II 2 G c IIB T4

- | | |
|---|--|
| <p> EC mark for explosion proof equipment</p> <p>II Equipment group II</p> <p>2G Equipment suitable for zone I</p> <p>Ex Explosion proof according to directive 2014/34/EU</p> | <p>d Flameproof</p> <p>c Constructional safety</p> <p>IIB Gas group: Ethylene</p> <p>T4 Max. surface temperature: 135 °C</p> |
|---|--|

Technical Data

MODEL	Model Type	COMPRESSOR				MOTOR								Lubricant charge	Oil		Hydrostatic Pressure Test	WEIGHT				
		Displacement 60 / 50Hz m ³ /hr	Rated Speed 60 / 50Hz	VI	Cap. Control (%)		Type	Nominal Hp		Starting	Voltage (V)		Insulation		Protection	L			Heater	W	Kg/cm2G	kg
					STEP	STEPLESS		60Hz	50Hz		60Hz	50Hz										
RC2-100ExP	A	118/98			33, 66, 100	33~100		23	19					7					275			
	B							38	31										280			
RC2-140ExP	A	165/137			33, 66, 100	33~100		32	26					7					280			
	B							50	41										285			
RC2-180ExP	A	216/180			33, 66, 100	33~100		42	35					7					300			
	B							66	55										335			
RC2-200ExP	A	233/193			25, 50, 75, 100	25~100		45	37					8					420			
	B							70	58										425			
RC2-230ExP	A	277/230			35, 50, 75, 100	35~100		53	44		208			14					540			
	B							81	67										555			
RC2-260ExP	A	309/257			25, 50, 75, 100	25~100		59	49		230			14					560			
	B							90	75										575			
RC2-300ExP	A	352/293			25, 50, 75, 100	25~100		67	56		380			16					590			
	B							107	89										600			
RC2-310ExP	A	371/308			35, 50, 75, 100	35~100		71	59		440			16					575			
	B							110	91										580			
RC2-320ExP	A	384/320			25, 50, 75, 100	25~100		72	60		460			16					595			
	B							114	94										600			
RC2-340ExP	A	407/339			35, 50, 75, 100	35~100		77	64		480			16					600			
	B							121	101										620			
RC2-370ExP	A	440/366		2.2	35, 50, 75, 100	35~100		84	70		575			16					610			
	B							130	108										640			
RC2-410ExP	A	490/407		2.6	25, 50, 75, 100	25~100		93	78		400			16					730			
	B							146	121										740			
RC2-430ExP	-	509/423		3.0	25, 50, 75, 100	25~100		93	78		415			16					735			
	A							108	90										800			
RC2-470ExP	A	567/471			25, 50, 75, 100	25~100		170	141					18					810			
	B							117	98										760			
RC2-510ExP	A	611/508			35, 50, 75, 100	35~100		183	152					20					780			
	B							126	105										820			
RC2-550ExP	A	660/549			25, 50, 75, 100	25~100		195	162					23					850			
	B							131	109										805			
RC2-580ExP	A	702/583			35, 50, 75, 100	35~100		210	175		380			20					840			
	B							220	183										880			
RC2-620ExP	A	745/619			35, 50, 75, 100	35~100		137	114		440			23					850			
	B							220	183										880			
RC2-710ExP	A	858/713			35, 50, 75, 100	35~100		158	131					28					1099			
	B							250	208										1099			
RC2-790ExP	A	952/791			30, 50, 75, 100	30~100		175	146					28					1140			
	B							276	230										1180			
RC2-830ExP	A	993/825			30, 50, 75, 100	30~100		183	152					28					1150			
	B							290	234										1215			
RC2-930ExP	A	1117/929			35, 50, 75, 100	35~100		212	176					28					1180			
	B							334	278										1240			

RC2-ExP Application Limits



Please consult Hanbell sales representatives for the application limits of other flammable gases



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HBCE-RC2-Exp-16-A(1000)