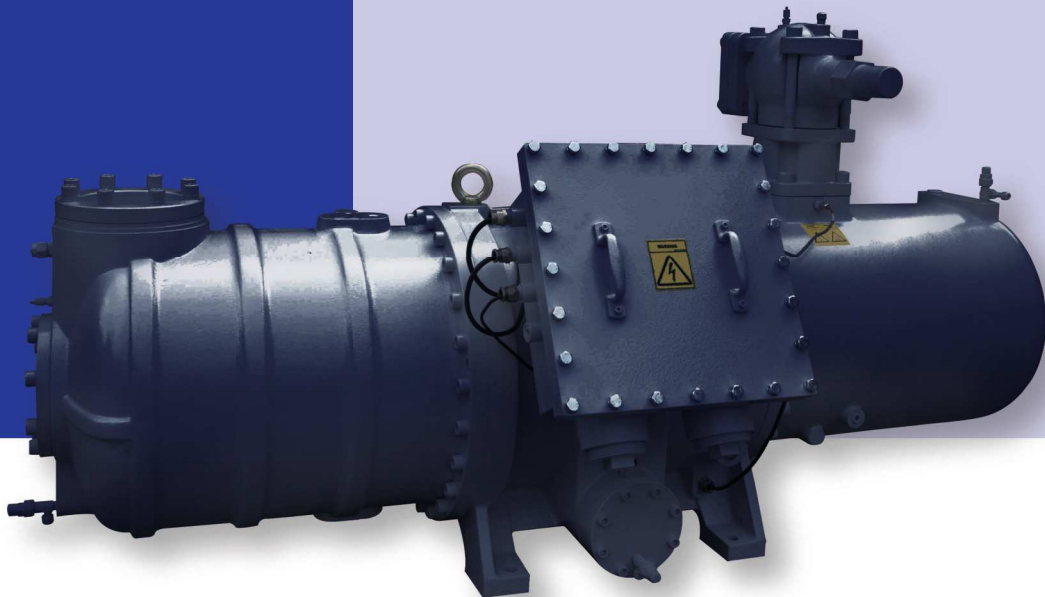


New explosion-proof  
Screw compressor dedicated to  
HFC, HCFC, flammable gases  
such as isobutene and propane  
in a hazardous atmosphere

# Explosion-proof Model RC2-ExP Series Screw Compressor

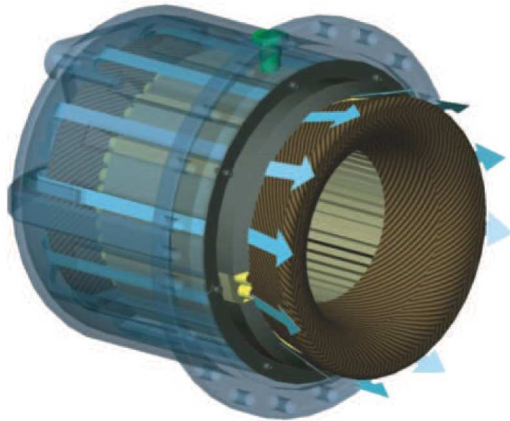


TD040055

# 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

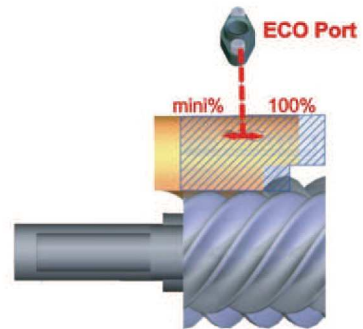


### High-efficiency Motor

- 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

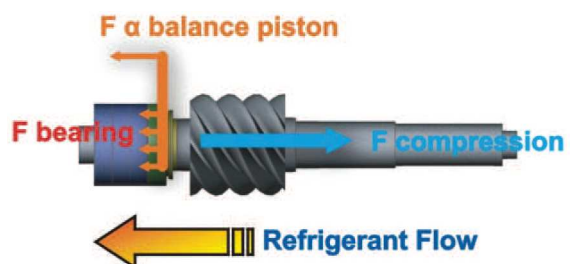
- 5-to-6 rotor profile patented in Taiwan, US, UK, and China
- Designed according to characteristics of refrigerants
- Hyper volumetric efficiency and optimum clearance

### 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**

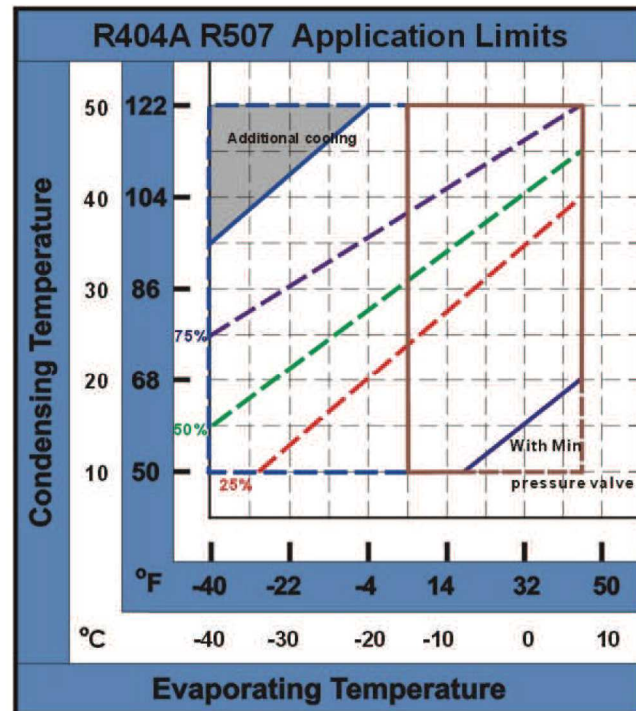
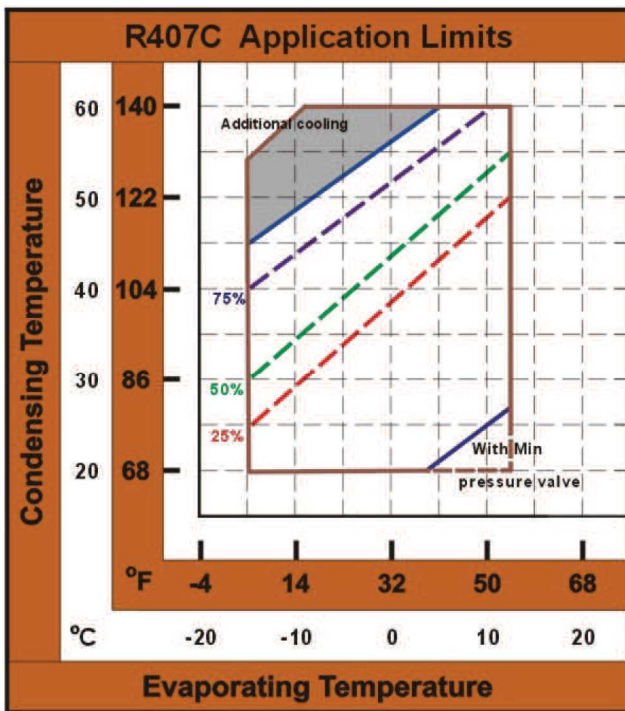
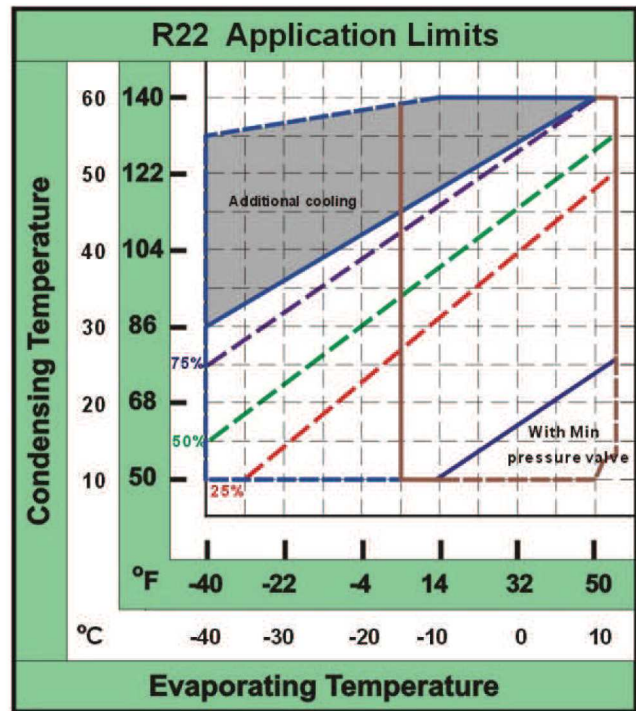
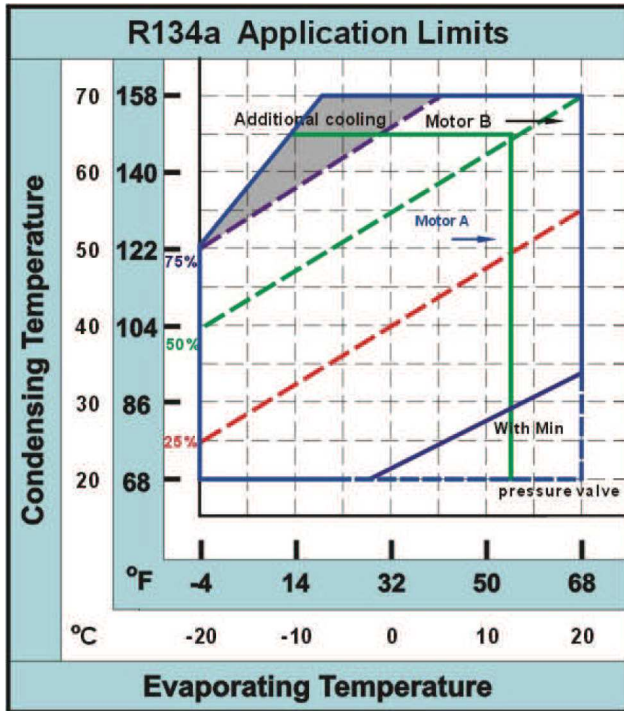
- |   |  |
|---|--|
| <p> EC mark for explosion proof equipment</p> <p><b>II</b> Equipment group II</p> <p><b>2G</b> Equipment suitable for zone I</p> <p><b>Ex</b> Explosion proof according to directive 2014/34/EU</p> | <p><b>d</b> Flameproof</p> <p><b>c</b> Constructional safety</p> <p><b>IIB</b> Gas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

## Technical Data

MODEL	Model Type	COMPRESSOR					MOTOR						Lubricant charge	Oil Heater	Hydrostatic Pressure Test	WEIGHT		
		Displacement 60 / 50Hz m³/hr	Rated Speed 60 / 50Hz	VI	Cap. Control (%)		Type	Nominal Hp		Starting	Voltage (V)						Insulation	Protection
					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			545	
	B							90	75								560	
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	3550/2950	2.2	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	84	70		415	Class F	PTC Protection	16	250	42	610	
	B							130	108								640	
RC2-410ExP	A	490/407		2.6	25, 50, 75, 100	25~100		93	78				16				730	
	B							146	121								740	
RC2-430ExP	-	509/423		3.0	25, 50, 75, 100	25~100		93	78				16				735	
RC2-470ExP	A	567/471		3.5	25, 50, 75, 100	25~100		108	90				18				800	
	B							170	141								810	
RC2-510ExP	A	611/508		4.8	35, 50, 75, 100	35~100		117	98				20				760	
	B							183	152								780	
RC2-550ExP	A	660/549			25, 50, 75, 100	25~100		126	105		380			23			820	
	B							195	162								850	
RC2-580ExP	A	702/583			35, 50, 75, 100	35~100		131	109		440			20			805	
	B							210	175								840	
RC2-620ExP	A	745/619			35, 50, 75, 100	35~100		137	114		460			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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