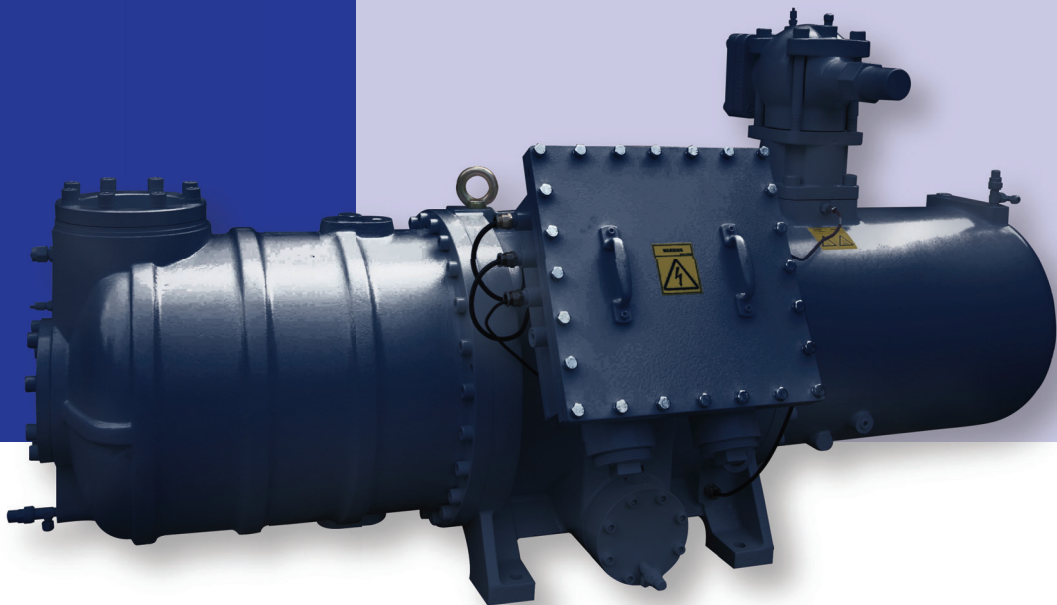


ATEX, IECEx explosion-proof
Screw compressor dedicated to
HFC, HCFC, Isobutene, propane in
Hazardous atmosphere

Explosion-proof Model RC2-ExP Series Screw Compressor



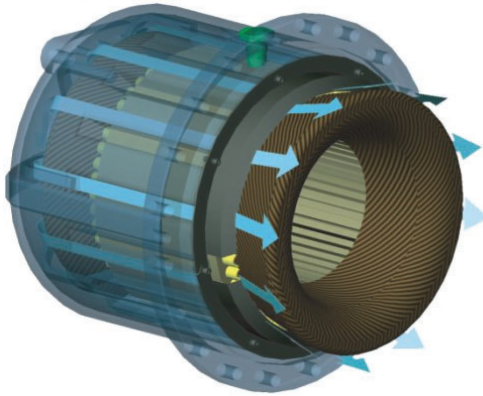
TD040055



Highlights of RC2-ExP Screw Compressor

ATEX and IECEx Certified

- 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
- IECEx certificate no. TUR 17.0002X

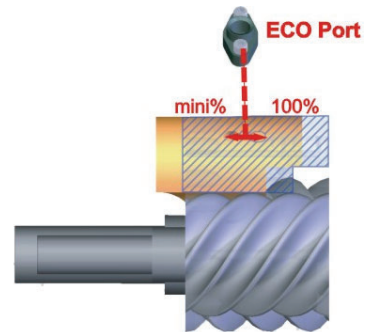


Energy-efficient Motor

- Semi-hermetic, flange-mount design
- Effective cooling by suction refrigerant gas
- Part winding, star-delta, DOL starter options available
- Variable frequency drive (VFD) option available
- Optimized housepower respond to refrigerant properties
- Cooling guide vane design on motor casing
- F-class motor insulation

Economizer (Sub-cooler) Operation

- Increasing cooling capacity at minimum additional power
- Stable middle pressure, easy to control
- Specially-designed gas flow passageway on slide valve
- Subcooling works also works at partial load



High-efficiency Screw Rotor Profile

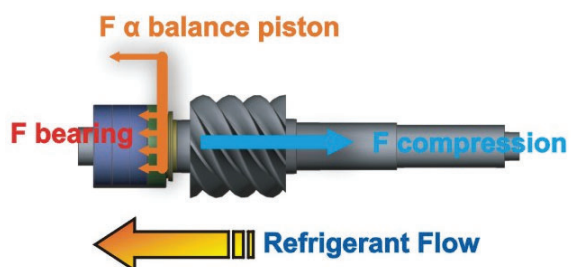
- Five-to-six lobes patented rotor profile
- High displacement, low operation noise
- Excellent volumetric efficiency and minimum clearance
- Heat process and heavy-duty design
- In-house manufacturing technology
- Precisely machining and quality assurance

Capacity Control

- Explosion-proof solenoid valves and coils
- Step or Continuous (Stepless) control mechanism


Durable Bearing Structure

- High-quality radial and axial bearings
- Anti-reverse rotation design
- α balance piston against axial thrust
- Long life cycle and service time
- Oversized bearings, heavy-duty



ATEX Classification


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

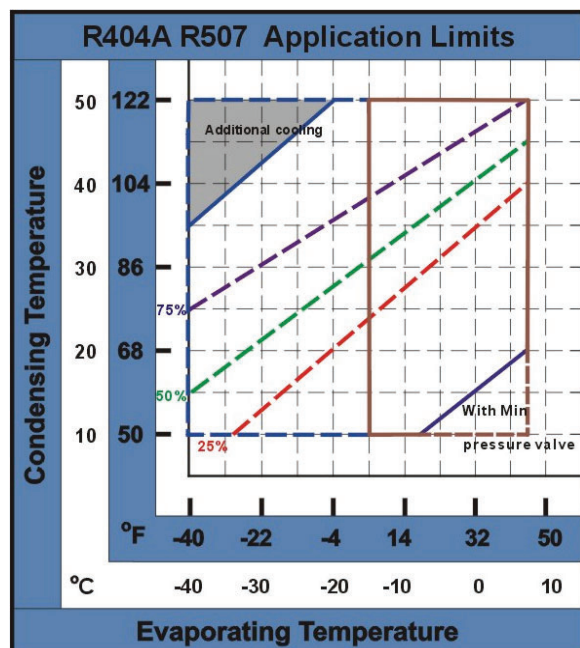
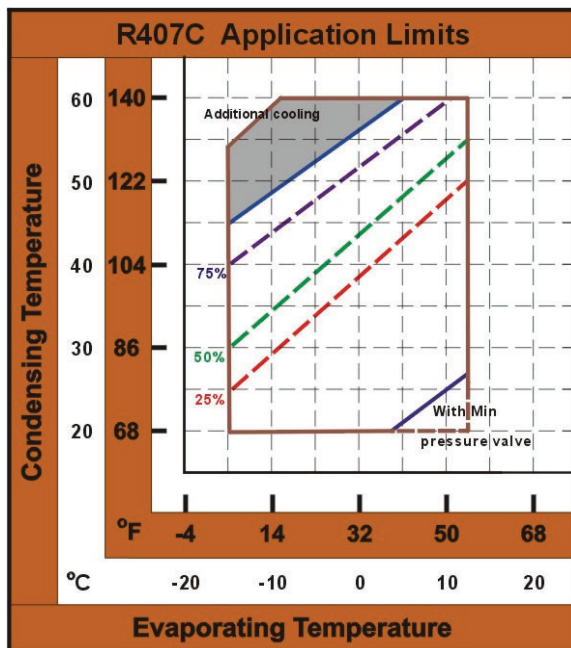
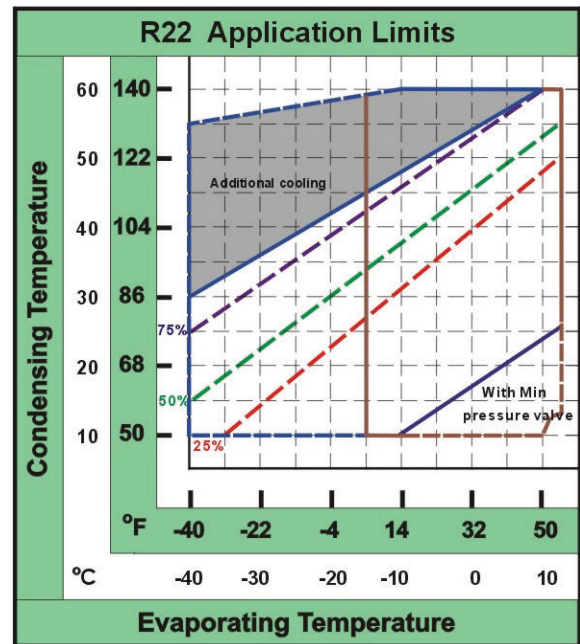
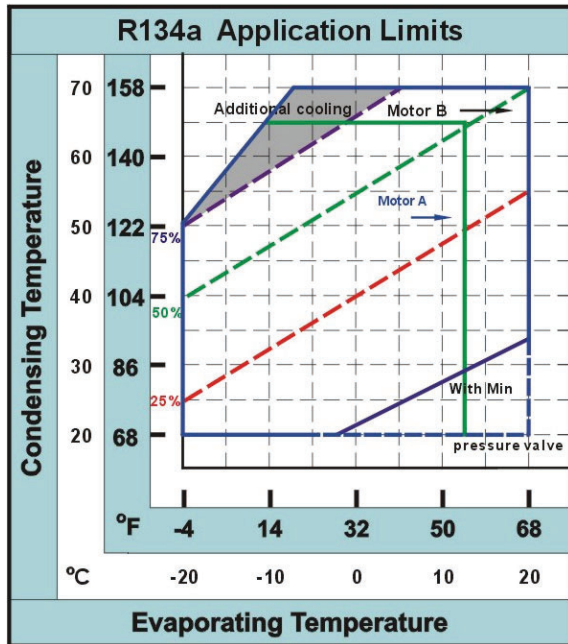
 EC mark for explosion proof equipment
II Equipment group II
2G Equipment suitable for zone I
Ex Explosion proof according to directive 2014/34/EU

d Flameproof
c Constructional safety
IIB Gas group: Ethylene
T4 Max. surface temperature: 135 °C

Technical Data

MODEL	Model Type	COMPRESSOR				MOTOR					Lubricant charge	WEIGHT		
		Displacement 60 / 50Hz m ³ /hr	Rated Speed 60 / 50Hz	VI	Cap. Control (%)		Type	Nominal Hp		Starting			Voltage (V)	
					STEP	STEPLESS		60Hz	50Hz				60Hz	50Hz
RC2-100ExP	A	118/98	3550/2950	2.2	33, 66, 100	33~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	23	19	Y-Δ PWS DOL	208	7	275	
	B							38	31				280	
RC2-140ExP	A	165/137	3550/2950	2.6	33, 66, 100	33~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	32	26	Y-Δ PWS DOL	230	7	280	
	B							50	41				285	
RC2-180ExP	A	216/180	3550/2950	3.0	33, 66, 100	33~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	42	35	Y-Δ PWS DOL	380	7	300	
	B							66	55				335	
RC2-200ExP	A	233/193	3550/2950	3.5	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	45	37	Y-Δ PWS DOL	440	8	420	
	B							70	58				425	
RC2-230ExP	A	277/230	3550/2950	4.8	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	53	44	Y-Δ PWS DOL	460	14	540	
	B							81	67				555	
RC2-260ExP	A	309/257	3550/2950	3.0	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	59	49	Y-Δ PWS DOL	480	14	545	
	B							90	75				560	
RC2-300ExP	A	352/293	3550/2950	3.5	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	67	56	Y-Δ PWS DOL	575	16	590	
	B							107	89				600	
RC2-310ExP	A	371/308	3550/2950	2.2	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	71	59	Y-Δ PWS DOL	380	16	575	
	B							110	91				580	
RC2-340ExP	A	407/339	3550/2950	2.6	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	77	64	Y-Δ PWS DOL	400	16	600	
	B							121	101				620	
RC2-370ExP	A	440/366	3550/2950	3.0	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	84	70	Y-Δ PWS DOL	440	16	610	
	B							130	108				640	
RC2-410ExP	A	490/407	3550/2950	3.5	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	93	78	Y-Δ PWS DOL	460	16	730	
	B							146	121				740	
RC2-470ExP	A	567/471	3550/2950	4.8	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	108	90	Y-Δ PWS DOL	480	18	800	
	B							170	141				810	
RC2-510ExP	A	611/508	3550/2950	3.0	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	117	98	Y-Δ PWS DOL	575	20	760	
	B							183	152				780	
RC2-550ExP	A	660/549	3550/2950	3.5	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	126	105	Y-Δ PWS DOL	380	23	820	
	B							195	162				850	
RC2-580ExP	A	702/583	3550/2950	4.8	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	131	109	Y-Δ PWS DOL	440	20	805	
	B							210	175				840	
RC2-620ExP	A	745/619	3550/2950	3.0	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	137	114	Y-Δ PWS DOL	460	23	850	
	B							220	183				880	
RC2-710ExP	A	858/713	3550/2950	3.5	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	158	131	Y-Δ PWS DOL	480	28	1099	
	B							250	208				1099	
RC2-790ExP	A	952/791	3550/2950	4.8	30, 50, 75, 100	30~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	175	146	Y-Δ PWS DOL	380	28	1140	
	B							276	230				1180	
RC2-830ExP	A	993/825	3550/2950	3.0	30, 50, 75, 100	30~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	183	152	Y-Δ PWS DOL	460	28	1150	
	B							290	234				1215	
RC2-930ExP	A	1117/929	3550/2950	4.8	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	212	176	Y-Δ PWS DOL	575	28	1180	
	B							334	278				1240	

RC2-ExP Application Limits



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



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HBCE-EXP-20-A(500)