

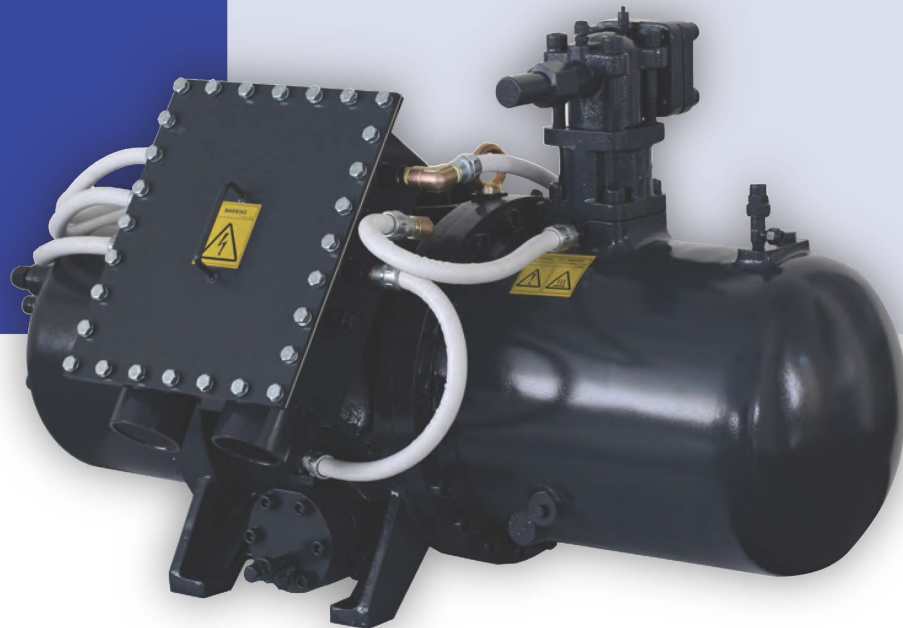


HANBELL

RC2-Exp Series

New explosion proof design
Screw compressor dedicated to
HFC, HCFC & flammable gases
Used in explosive atmospheres

Explosion-proof Model RC2-Exp Series Screw Compressor



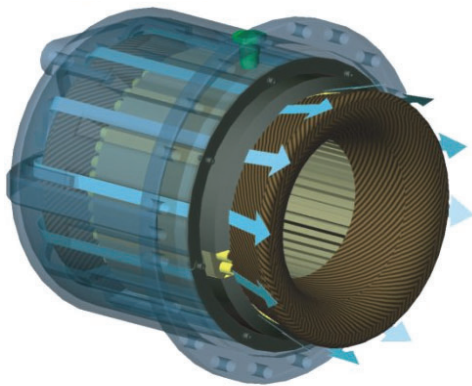
PED



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

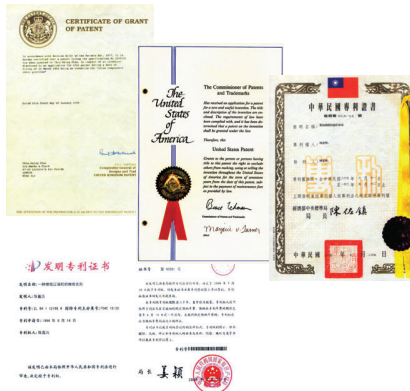
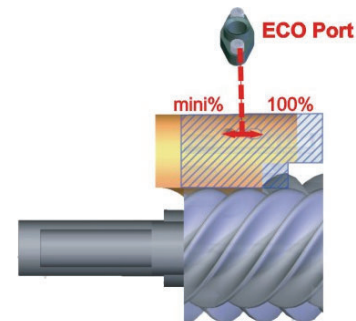


Energy-efficient Motor

- 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

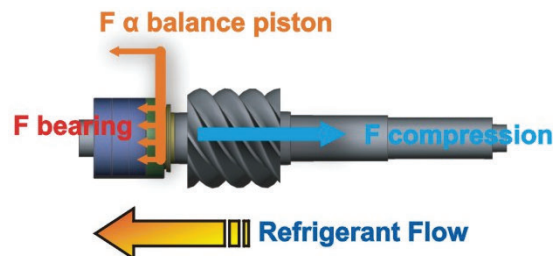
- Five-to-six lobes patented rotor profile
- High displacement, low operation noise
- Excellent volumetric efficiency and minimum clearance
- Heat process and heavy-duty design
- In-house manufacturing technology
- Precisely machining and quality assurance

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

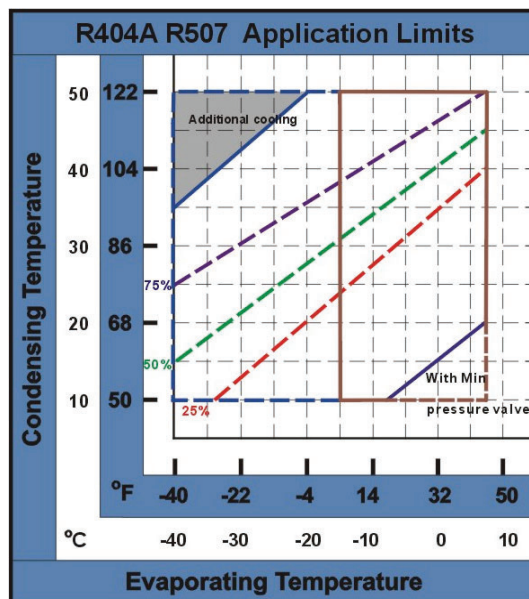
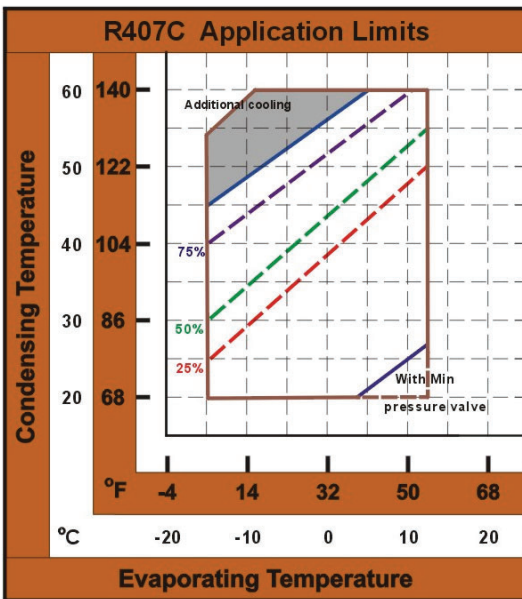
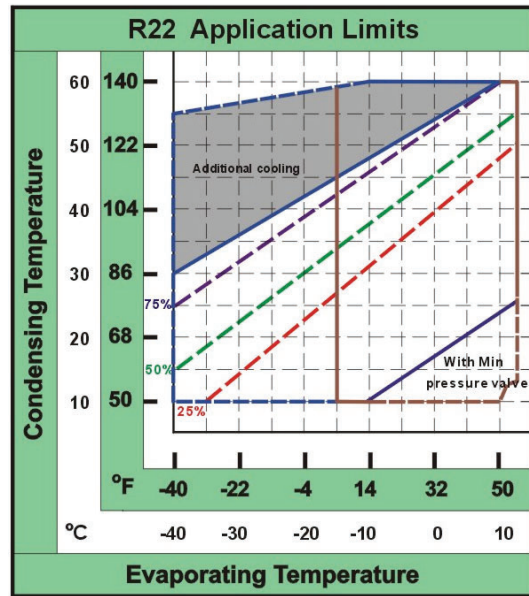
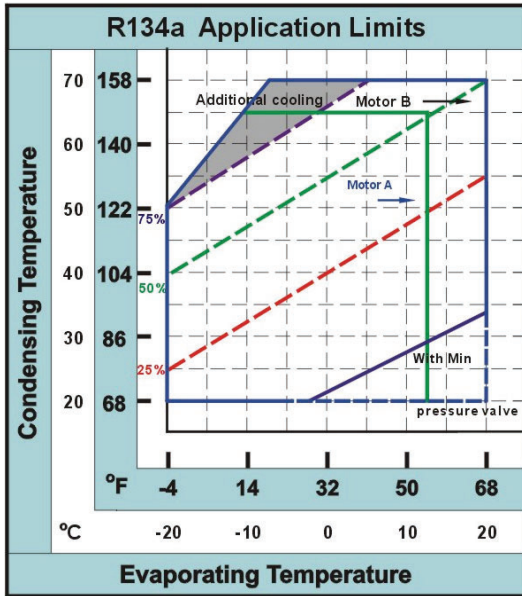
Ex II 2 G Ex d IIB T4 Gb
II 2 G c IIB T4

- Ex** 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 60Hz CFM	Rated Speed 60Hz	VI	Cap. Control (%)		Type	Nominal Hp 60Hz	Starting	Voltage (V) 60Hz		
					STEP	STEPLESS						
RC2-100Exp	A	69	3550	2.2	33, 66, 100	33~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	23	Y-Δ	208	1.9	606
	B											617
RC2-140Exp	A	97	3550	2.6	33, 66, 100	33~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	32	Y-Δ	220	1.9	617
	B											628
RC2-180Exp	A	127	3550	3.0	33, 66, 100	33~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	42	Y-Δ	230	1.9	661
	B											739
RC2-200Exp	A	137	3550	3.5	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	45	PWS	380	2.1	926
	B											937
RC2-230Exp	A	163	3550	4.8	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	53	Y-Δ	440	3.7	1191
	B											1224
RC2-260Exp	A	182	3550	2.2	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	59	Y-Δ	460	3.7	1202
	B											1235
RC2-300Exp	A	207	3550	2.6	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	67	Y-Δ	480	4.2	1268
	B											1301
RC2-310Exp	A	218	3550	3.0	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	71	PWS	575	4.2	1279
	B											1279
RC2-340Exp	A	240	3550	3.5	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	77	Y-Δ	575	4.2	1323
	B											1367
RC2-370Exp	A	259	3550	4.8	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	84	Y-Δ	575	4.2	1345
	B											1411
RC2-410Exp	A	288	3550	2.2	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	93	Y-Δ	575	4.2	1609
	B											1631
RC2-470Exp	A	334	3550	2.6	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	108	PWS	575	4.8	1764
	B											1786
RC2-510Exp	A	360	3550	3.0	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	117	Y-Δ	575	5.3	1676
	B											1720
RC2-550Exp	A	388	3550	3.5	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	126	Y-Δ	575	6.1	1808
	B											1874
RC2-580Exp	A	413	3550	4.8	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	131	Y-Δ	575	5.3	1775
	B											1852
RC2-620Exp	A	438	3550	2.2	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	137	Y-Δ	380	6.1	1874
	B											1940
RC2-710Exp	A	505	3550	2.6	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	158	Y-Δ	440	7.4	2423
	B											2423
RC2-790Exp	A	560	3550	3.0	30, 50, 75, 100	30~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	175	Y-Δ	460	7.4	2513
	B											2601
RC2-830Exp	A	584	3550	3.5	30, 50, 75, 100	30~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	183	Y-Δ	480	7.4	2535
	B											2679
RC2-930Exp	A	657	3550	4.8	35, 50, 75, 100	35~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	212	Y-Δ	575	7.4	2601
	B											2734

RC2-ExP Application Limits



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



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