

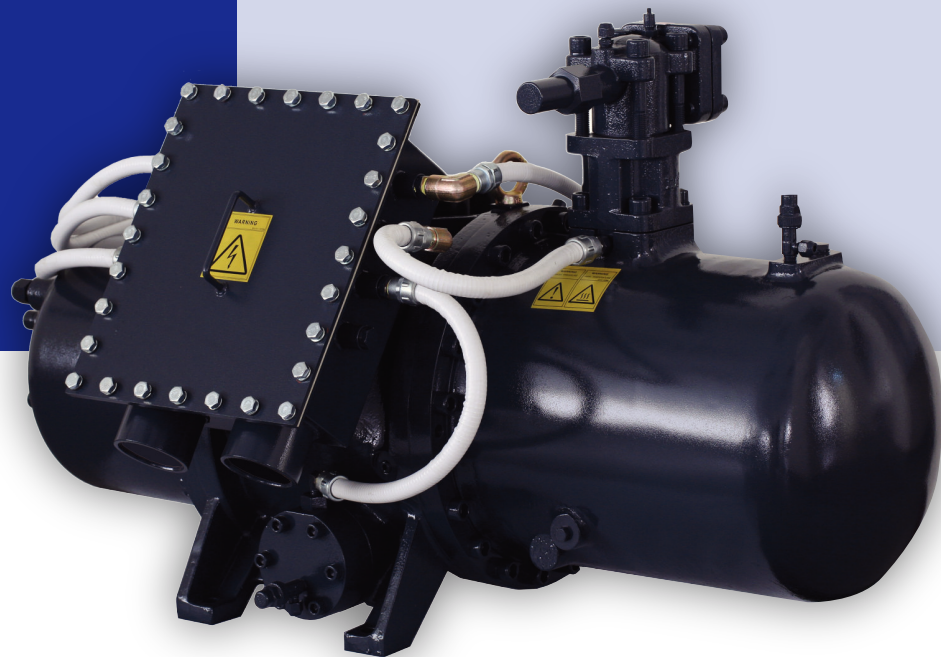


HANBELL

RC2-Ex Series

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

Hazard-sustained Model RC2-Ex Series Screw Compressor



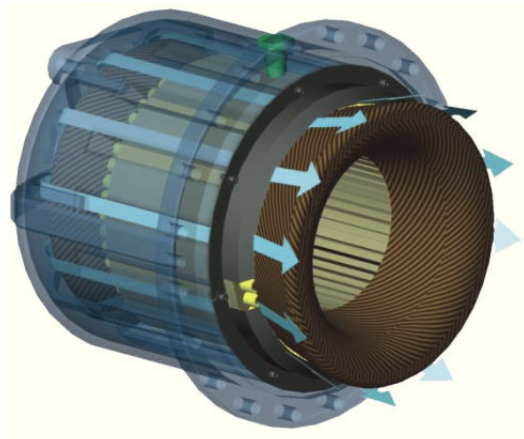
PED



Highlights of RC2-Ex Series Screw Compressor

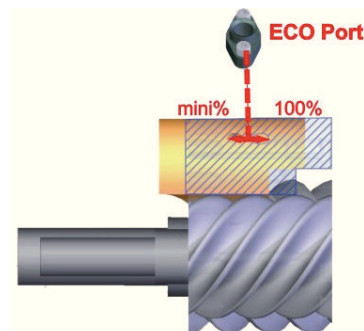
ATEX & CNS Certified Screw Compressor

- In compliance with ATEX II 2 G Ex de IIB T4 Gb & CNS Ex de IIB T4 X
- Designed according to EN 60079-0:2009, EN 13463-0:2009, EN 60079-1:2007, EN 13463-5:2003, EN 60079-7:2007, CNS 3376-0:2008, CNS 3376-1:2008, CNS 3376-7:2008
- Semi-hermetic design for easy installation and application



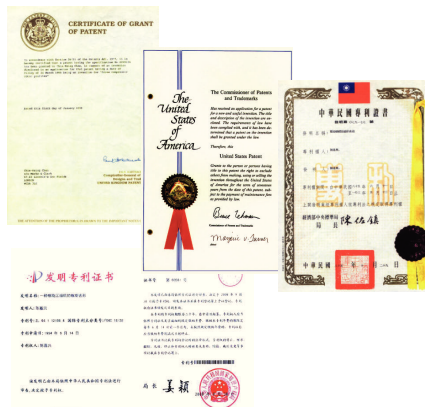
High-efficiency Motor

- Available for part winding start or star delta start
- Custom-made for specified voltage and frequency of power
- Optimal slot design for passage of refrigerant inside motor casing
- Refrigerant flows through outside of motor winding to provide the most efficient motor cooling
- Sliding-fit stator easier for installation and removal



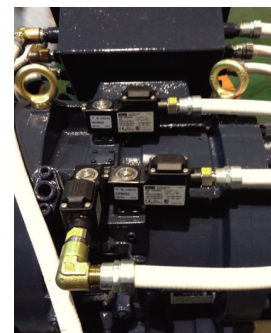
Part-load Effective Economizer Operation

- Enhance cooling capacity as well as energy efficiency
- Sustain optimum medium pressure by vapor injection through specially-designed slots in slide valve and compression casing
- Effective under partial load and full load



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 minimum clearance

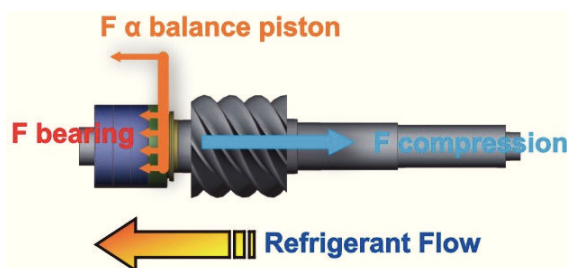


Capacity Control

- Explosion-proof solenoid coil certified by ATEX
- 4-step or continuous (25%~100%) capacity control system

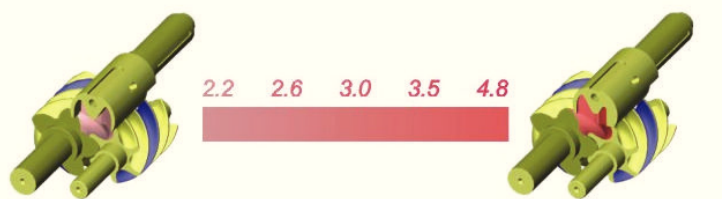
Durable Bearing Structure

- High-quality bearings (radial and axial resistance) for heavy-duty design
- Additional bearing for backward rotation
- α balance piston against axial thrust



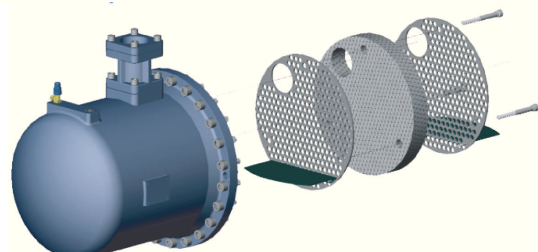
Wide VI Selection

- Built-in volume ratio (VI)-2.2, 2.6, 3.0, 3.5, 4.8
- Exactly match pressure ratio without over- or under-compression
- Suitable for various applications like refrigeration, water-cooled chiller, air-cooled chiller and heat pump



High-performance Integral Oil Separator

- Detachable demister for cleaning
- Low pressure drop and oil carry-over




Complete Protection & Accessories

1. Motor temperature sensor (optional)
 - "Built-in" Pt100 or Pt1000 installed in motor winding
 - Controller can precisely initiate liquid injection to motor accordingly
2. Discharge Temperature Thermistor & Motor Temperature Thermistor
 - Effectively protect compressor in advance when any abnormal alarm occurs
3. Liquid Injection and Oil Cooler Function (Port & Stop Pin)
4. Oil Level Switch
 - Ensure sufficient lubricant in compressor for better lubrication, capacity control, cooling and sealing
5. Heater (150W & 300W)
 - Increase lubricant's flow-ability when compressor restarts after long-term stop
6. Connection for Pressure Differential Switch
 - Easily detect clog in oil filter











ATEX classification

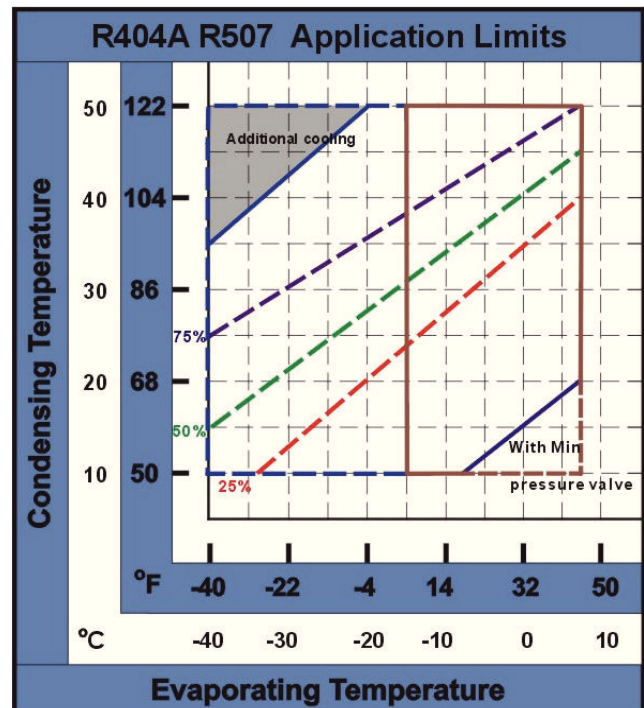
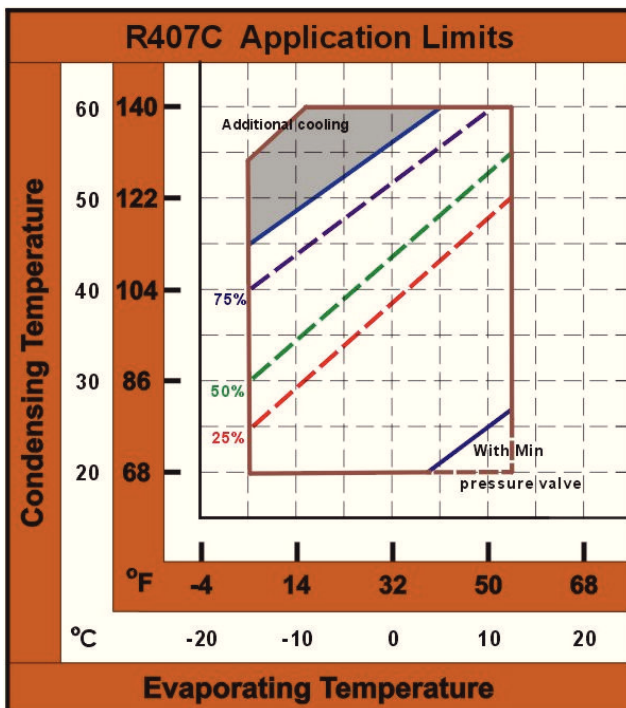
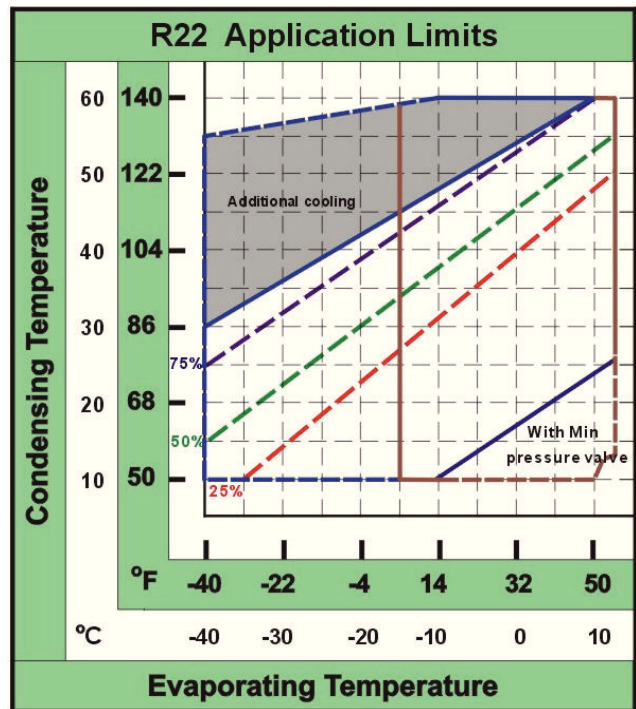
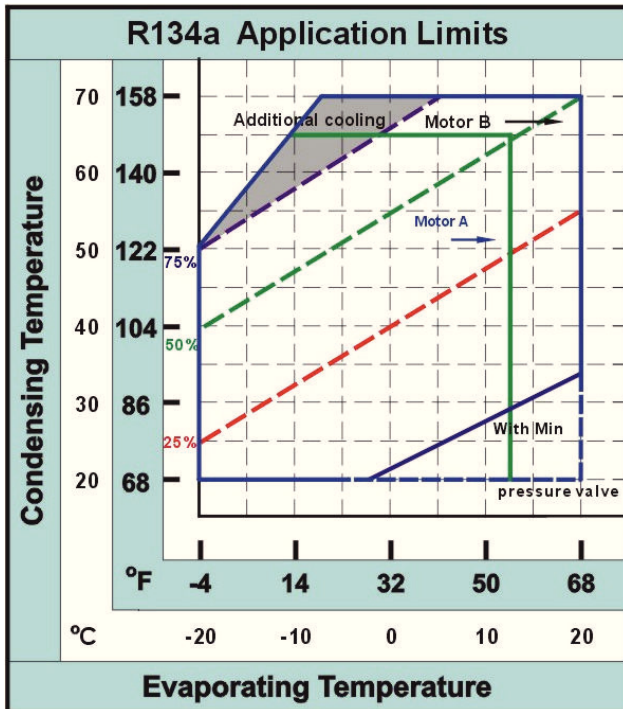
CE  II 2 G Ex d e IIB T4

- | | |
|--|--|
|  EC mark for explosion proof equipment | d Flameproof |
| II Equipment group II | e Increased safety |
| 2G Equipment suitable for zone I | IIB Gas group: Ethylene |
| Ex Explosion proof according to directive 94/9/EC | T4 Max. surface temperature: 135 °C |

Technical Data RC2-Ex

MODEL	COMPRESSOR					MOTOR						Oil Heater	Hydrostatic Pressure Test					
	Disp. @ 50 Hz (m³/hr)	Rated Speed 60 / 50 Hz	VI	Capacity Control (%)		Type	Starting	Voltage (V)		Insulation	Protection							
				STEP	STEPLESS			60Hz	50Hz									
RC2-200Ex		3550/2950	2.2	25, 50, 75, 100	25~100	3 Phase, 2 Pole, Squirrel Cage Induction Motor	Y-△ PWS DOL	208	380	Class F	PTC Protection	150/300	42					
								220										
								230										
RC2-300Ex								380						400				
								440										
								460										
								480						415				
								575										

RC2-Ex Application Limits



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



PT. Gemilang Reksa Buana

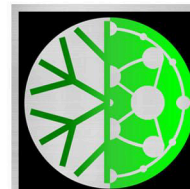
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