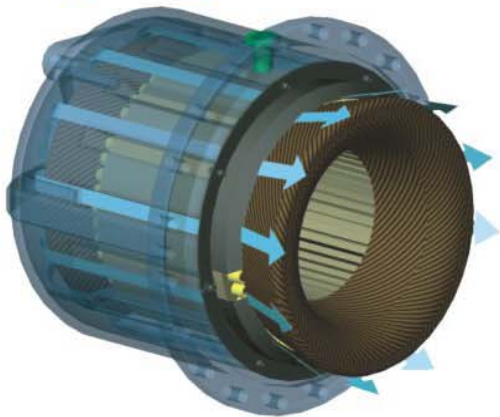


New generation of innovative design
Screw compressor dedicated to
R134a,R22,R407C,R404A,R507

High-efficiency Model RC2 Series Screw Compressor



Highlights of RC2 Series Screw Compressor

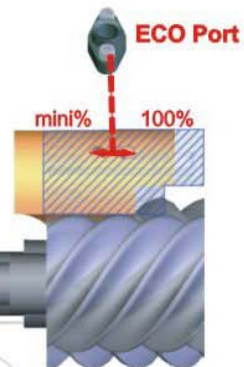


High-efficiency Motor

- Available for part winding start or star delta start
- Custom-made for specified voltage and frequency of power
- Two options A & B according to operation condition and type of refrigerant
- 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

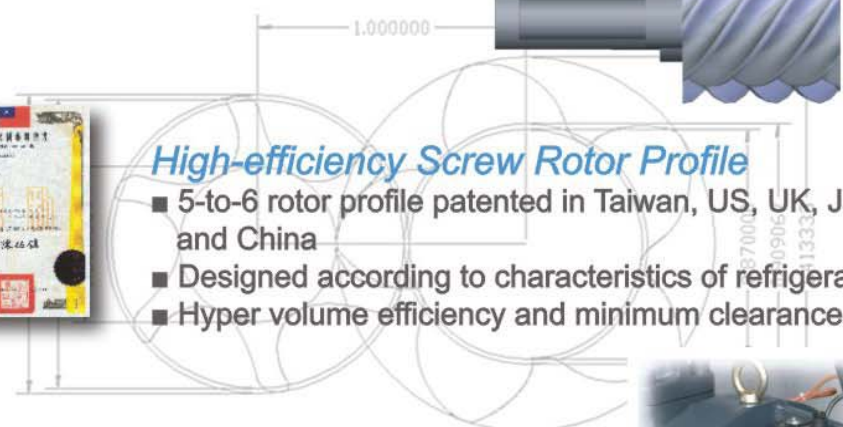
Part-load Effective Economizer Operation

- 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, Japan and China
- Designed according to characteristics of refrigerants
- Hyper volume efficiency and minimum clearance



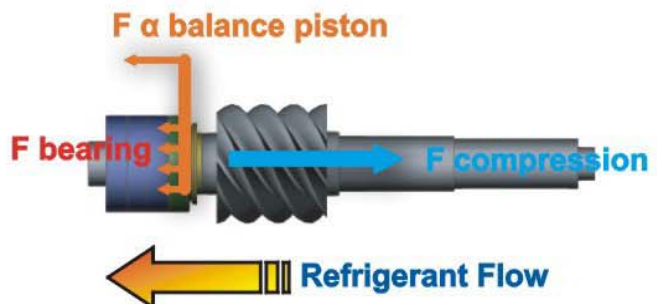
Dual Capacity Control

- Flanged-on solenoid coil easy for installation
- 3-step / 4-step or continuous (33%~100% / 25%~100%) capacity control system
- Interchangeable by varying control logic without modification of solenoid valves



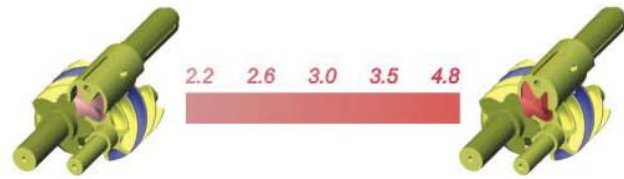
Durable Bearing Structure

- 11 high-quality bearings (radial and axial resistance)
- Additional two bearings for backward rotation
- α balance piston against axial thrust
- Heavy-duty design
- Resulted in longer bearing life compared to traditional 9-bearing design



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 separate applications like refrigeration, water-cooled chiller, air-cooled chiller and heat pump



High-performance Integral Oil Separator

- Detachable demister for cleaning
- Finer size of mesh
- Low pressure drop and oil carry-over



Total Protection & Accessories

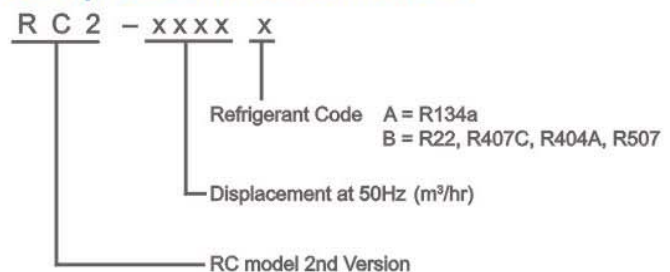
1. Motor Temperature Sensor :
 - "Built-in"Pt 100 or Pt 1000 installed in motor winding
 - Accurately registers motor temperature
 - Controller can precisely initiate liquid injection to motor accordingly
2. Discharge Temperature Thermistor & Motor Temperature Thermistor
 - Totally integrated
 - Effectively protect compressor in advance when any abnormal alarm occurs
3. Liquid Injection and Oil Cooler Function (Port & Stop Pin)
 - Both available on every Hanbell screw compressor.
4. Oil Level and Flow 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
 - Assure effective capacity modulation and lubrication



Other Advantages

- Low noise level and minute vibration
- Fewer quantity of parts in screw compressor than those in reciprocating compressor
- Easy for maintenance and overhaul
- Compact geometry easy for layout

Compressor Nomenclature



Approval and Certification

- Production by SOP conformed to major quality standards
- Approved by ISO 9001-2000, UL, CE(PED), Electronic Apparatus for Explosive Atmospheres(EX, China), Lloyd's Register (Vessel) , Symbol of Excellence in Taiwan

Technical Data RC2-A

MODEL	COMPRESSOR				MOTOR							Lubricant charge	Oil Heater	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
				STEP	STEPLESS		60Hz	50Hz		60Hz	50Hz						
RC2-100A	118/98			33, 66, 100	33~100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	23	19					L	W	kg/cm ² G	kg	
RC2-140A	165/137			33, 66, 100	33~100		32	26						7			275
RC2-170A	207/172			25, 50, 75, 100	25~100		40	33						7			280
RC2-180A	216/180			33, 66, 100	33~100		42	35						7			370
RC2-200A	233/193			25, 50, 75, 100	25~100		45	37			208 220 230 380 440 460 480 575			8			300
RC2-230A	277/230			35, 50, 75, 100	35~100		53	44						14			420
RC2-260A	309/257			25, 50, 75, 100	25~100		59	49						14			540
RC2-300A	352/293			25, 50, 75, 100	25~100		67	56	Y-Δ					16			545
RC2-310A	371/308			35, 50, 75, 100	35~100		71	59	PWS					16			590
RC2-320A	384/320			25, 50, 75, 100	25~100		72	60	DOL					16			575
RC2-340A	407/339			35, 50, 75, 100	35~100		77	64						16			595
RC2-370A	440/366		2.2	35, 50, 75, 100	35~100		84	70						16	150/300		600
RC2-410A	490/407		2.6	25, 50, 75, 100	25~100		93	78				Class F		15			610
RC2-470A	567/471	3550/2950	3.0	25, 50, 75, 100	25~100		108	90			380 400 415			18		42	730
RC2-510A	611/508		3.5	35, 50, 75, 100	35~100		117	98						20			800
RC2-550A	660/549		4.8	25, 50, 75, 100	25~100		126	105						23			760
RC2-580A	702/583			35, 50, 75, 100	35~100		131	109						23			820
RC2-610A	735/611			25, 50, 75, 100	25~100		135	113						20			850
RC2-620A	745/619			35, 50, 75, 100	35~100		137	114			380 440 460 480 575			23			1099
RC2-710A	858/713			35, 50, 75, 100	35~100		158	131						28			1140
RC2-790A	952/791			30, 50, 75, 100	30~100	175	146						28			1150	
RC2-830A	993/825			30, 50, 75, 100	30~100	183	152	Y-Δ					28			1180	
RC2-930A	1117/929			35, 50, 75, 100	35~100	212	176	DOL					28			1400	
RC2-1090A	1310/1089			35, 50, 75, 100	35~100	247	205						--	--		1550	
RC2-1280A	1535/1276			30, 50, 75, 100	30~100	286	238						--	--		1600	
RC2-1520A	1832/1523			25, 50, 75, 100	25~100	331	275						--	--			

Unit : m³/hr 0 500 1000 1500

Nominal HP:

All above Nominal HP are not equal to the maximum compressor HP; please refer to Hanbell selection software for power input in specified working condition.

Technical Data RC2-B

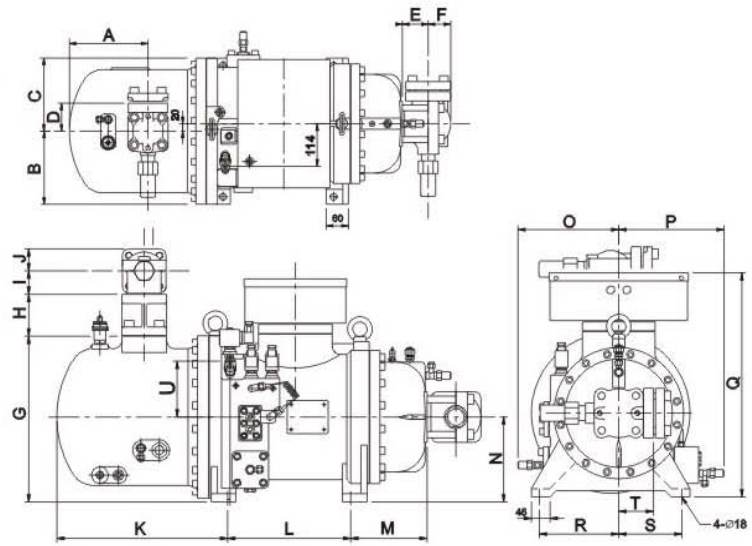
MODEL	COMPRESSOR				Type	MOTOR						Lubricant charge	Oil Heater	Hydrostatic Pressure Test	WEIGHT	
	Displacement 60 / 50Hz m ³ /hr	Rated Speed 60 / 50Hz	VI	Cap. Control (%)		Nominal Hp	Starting	Voltage (V)		Insulation	Protection					
				STEP				STEPLESS	60Hz							50Hz
RC2-100B	118/98			33, 66, 100	33~100	38	31					7			280	
RC2-140B	165/137			33, 66, 100	33~100	50	41					7			285	
RC2-170B	207/172			25, 50, 75, 100	25~100	63	52					7			380	
RC2-180B	216/180			33, 66, 100	33~100	66	55					7			335	
RC2-200B	233/193			25, 50, 75, 100	25~100	70	58					8			425	
RC2-230B	277/230			35, 50, 75, 100	35~100	81	67	Y-Δ				14			555	
RC2-260B	309/257			25, 50, 75, 100	25~100	90	75	PWS				14			560	
RC2-300B	352/293			25, 50, 75, 100	25~100	107	89	DOL				16			600	
RC2-310B	371/308			35, 50, 75, 100	35~100	110	91					16			580	
RC2-320B	384/320			25, 50, 75, 100	25~100	114	94					16			600	
RC2-340B	407/339			35, 50, 75, 100	35~100	121	101					16			620	
RC2-370B	440/366		2.2	35, 50, 75, 100	35~100	130	108					16	150/300		640	
RC2-410B	490/407		2.6	25, 50, 75, 100	25~100	146	121					15			740	
RC2-470B	567/471	3550/2950	3.0	25, 50, 75, 100	25~100	170	141			380 400 415	Class F	18		42	810	
RC2-510B	611/508		3.5	35, 50, 75, 100	35~100	183	152					20			780	
RC2-550B	660/549		4.8	25, 50, 75, 100	25~100	195	162					23			850	
RC2-580B	702/583			35, 50, 75, 100	35~100	210	175					20			840	
RC2-610B	735/611			25, 50, 75, 100	25~100	214	178			380 440 460 480 575		23			960	
RC2-620B	745/619			35, 50, 75, 100	35~100	220	183					23			880	
RC2-710B	858/713			35, 50, 75, 100	35~100	250	208	Y-Δ				28			1099	
RC2-790B	952/791			30, 50, 75, 100	30~100	276	230	DOL				28			1180	
RC2-830B	993/825			30, 50, 75, 100	30~100	290	234					28			1215	
RC2-930B	1117/929			35, 50, 75, 100	35~100	334	278					28			1240	
RC2-1090B	1310/1089			35, 50, 75, 100	35~100	402	335					--	--		1430	
RC2-1280B	1535/1276			30, 50, 75, 100	30~100	471	392					--	--		1580	
RC2-1520B	1832/1523			25, 50, 75, 100	25~100	534	443					--	--		1630	

Unit : m³/hr 0 500 1000 1500

Nominal HP:
All above Nominal HP are not equal to the maximum compressor HP;
please refer to Hanbell selection software for power input in specified working condition.

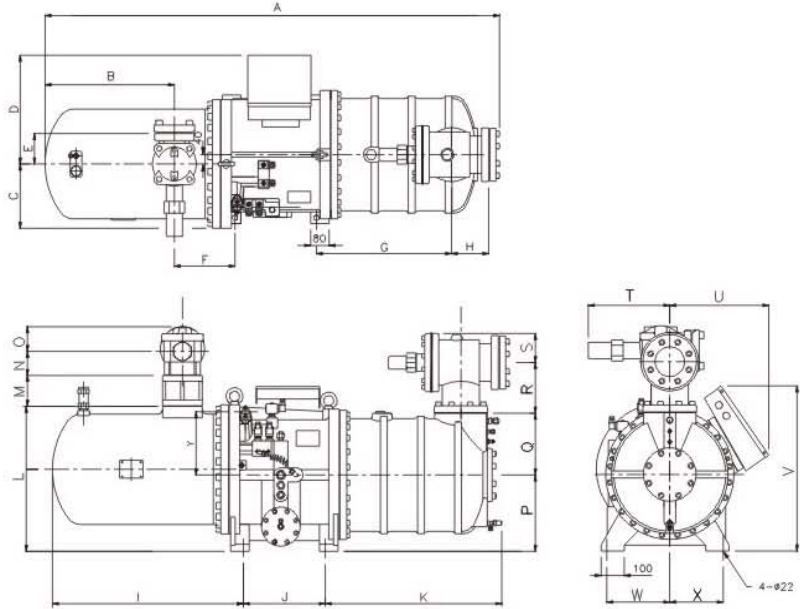
RC2-100~RC2-180 Outline

Note: Numbers in red indicate dimensions in which RC2-B differs from RC2-A (A / B)



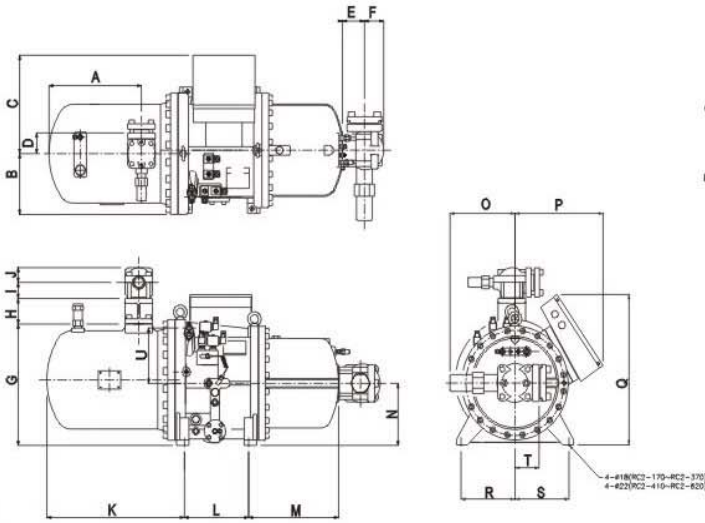
	Dimensions																			Unit: mm	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
RC2-100	213	196	196	75	70	61	400	101	57	53	416.5	300	186.5	205	249	260	548.5	196	156	86	135
RC2-140	213	196	196	75	70	61	400	101	57	53	416.5	300	186.5	205	249	260	548.5	196	156	86	135
RC2-180	283	196	196	75	81	68.5	410	101	57	53	486.5	386	196	205	239	260	548.5	196	156	95	123

RC2-610~RC2-930 Outline

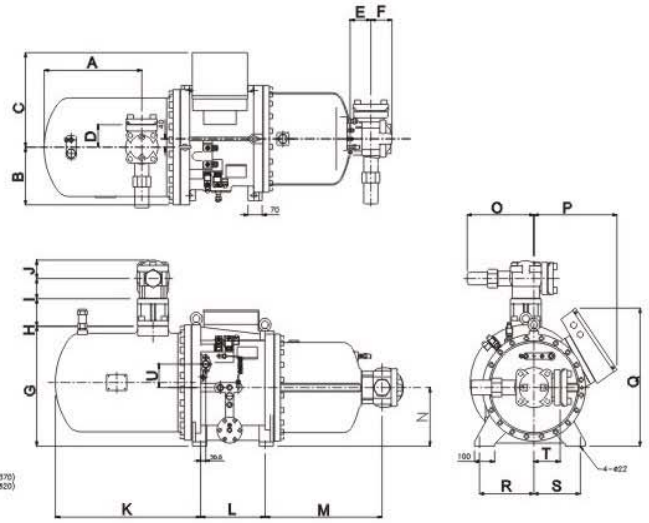


Model	Dimensions																				Unit: mm				
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
RC2-610	1812.5	484	275	466	107	252.5	514.5	161	736.5	353	690	617	131.5	96.5	88	325	263	215.5	124	331	426	701	270	230	269
RC2-710	1898.5 1968.5	560	275	466	130	262.5	514.5 584.5	161	822.5	353	690 760	617	131.5	103	105	325	263	215.5	124	350	426	701	270	230	269
RC2-790	1963.5 2033.5	560	275	466	130	262.5	514.5 584.5	161	822.5	418	690 760	617	131.5	103	105	325	263	215.5	124	350	426	701	270	230	230
RC2-830	1963.5 2033.5	560	275	466	130	262.5	514.5 584.5	161	822.5	418	690 760	617	131.5	103	105	325	263	215.5	124	350	426	701	270	230	230
RC2-930	2033.5 2087.5	560	275	466	130	262.5	584.5 638.5	161	822.5	418	760 814	617	131.5	103	105	325	263	215.5	124	350	426	701	270	230	230

RC2-170~RC2-580 Outline

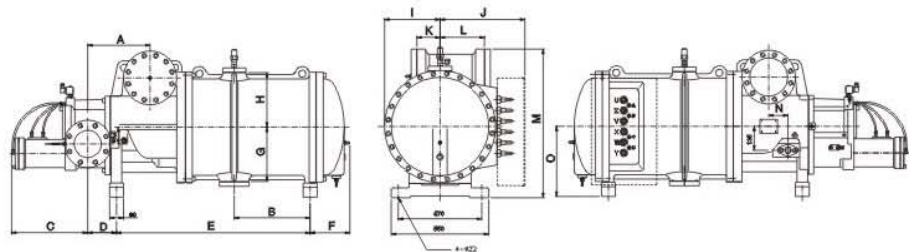


RC2-550 & RC2-620 Outline



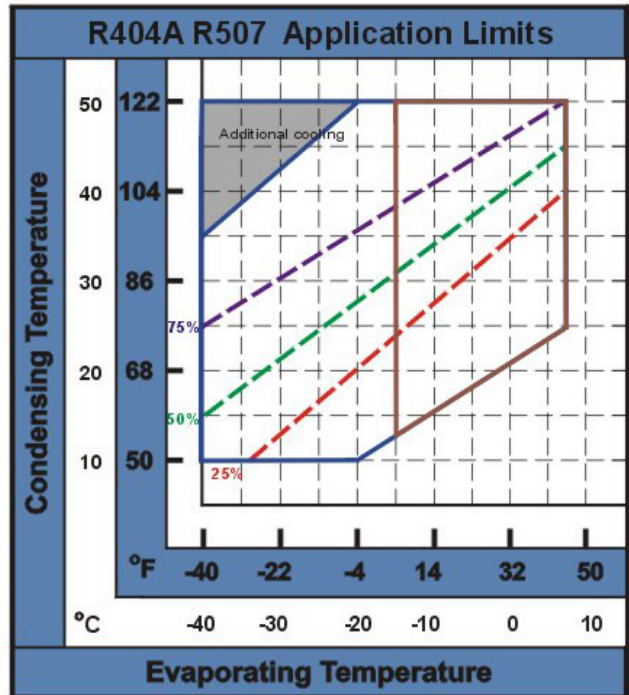
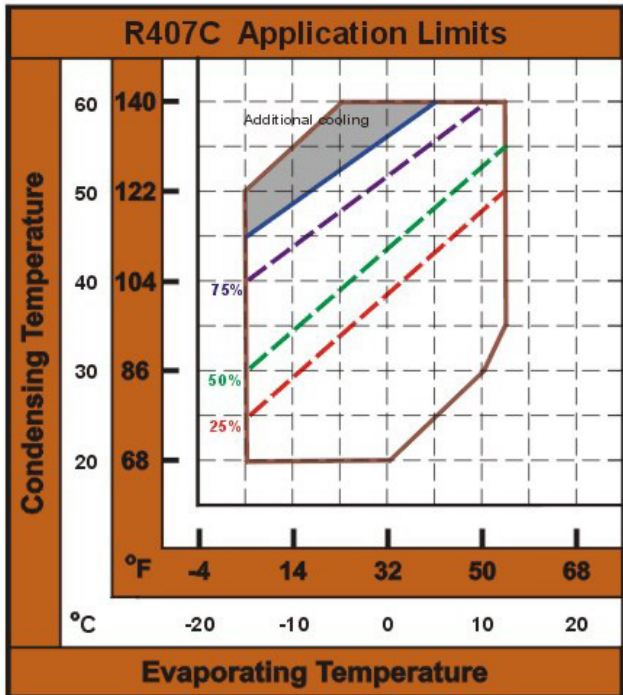
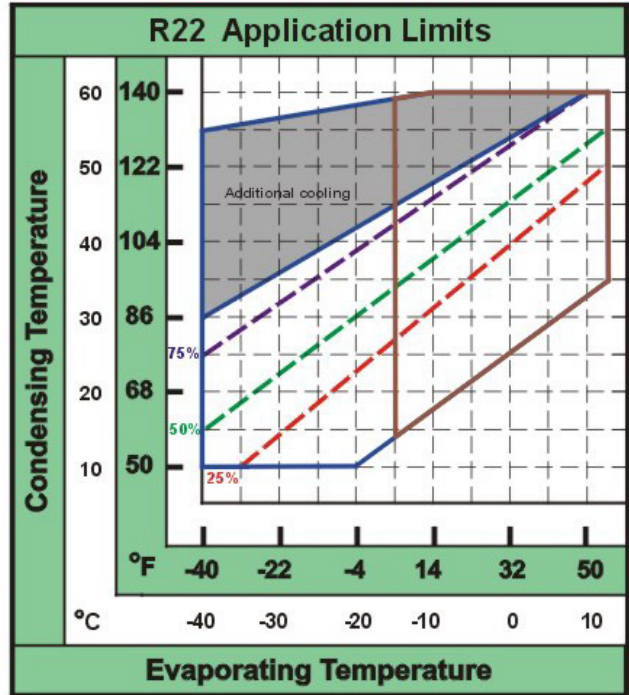
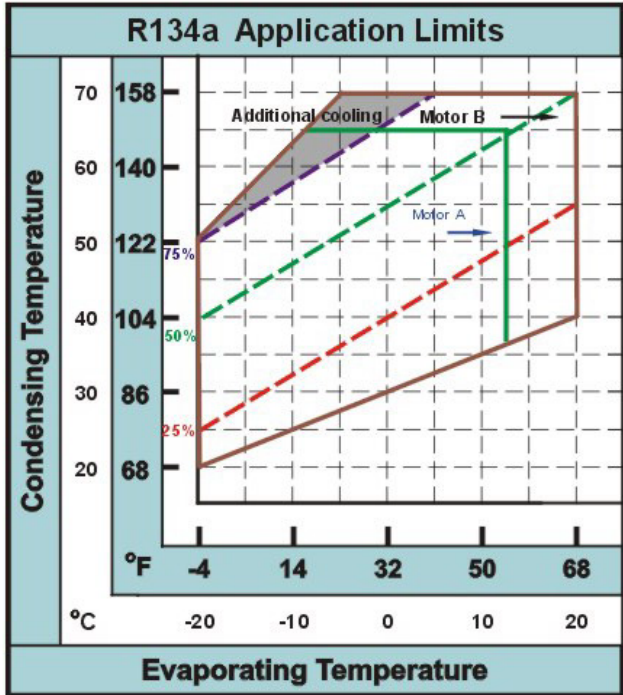
Model	Dimensions																			Unit: mm	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
RC2-170	310	229	378	75	82	69	447	101	57	53	501	200	341	225	245	362	592	225	225	95	196
RC2-200	345	229	378	75	82	69	447	101	57	53	536	228	341	225	245	362	592	225	225	95	196
RC2-230	365	250	405	86	97	85	502	106	67	61	567	251	399	257	289	391	624	240	240	107	225
RC2-260	365	250	405	86	97	85	502	106	67	61	567	251	399	257	289	391	624	240	240	107	225
RC2-300	408	250	405	86	97	85	502	106	67	61	610	285	399	257	289	391	624	240	240	107	229
RC2-310	408	250	405	86	97	85	502	106	67	61	610	251	444	257	289	391	624	240	240	107	225
RC2-320	408	250	405	86	97	85	502	106	67	61	610	285	399	257	289	391	624	240	240	107	229
RC2-340	408	250	405	95	103	105	502	121	81	69	610	285	447	257	310	391	624	240	240	130	228
RC2-370	408	250	405	95	103	105	502	121	81	69	610	285	447	257	310	391	624	240	240	130	228
RC2-410	392	275	453	95	103	105	553	120	81	69	613	288	433	275	315	413	655	270	230	130	255
RC2-470	440	275	453	95	103	105	553	120	81	69	661	320	433	275	315	413	655	270	230	130	255
RC2-510	465	275	453	107	103	105	560	131.5	96.5	88	696	288	484	275	331	413	655	270	230	130	254
RC2-550	484	275	451.5	107	103	105	572	131.5	96.5	88	720	320	580	280	331	411.5	659	270	230	130	112
RC2-580	465	275	453	107	103	105	560	131.5	96.5	88	696	320	484	275	331	413	655	270	230	130	255
RC2-620	484	275	451.5	107	220	124	572	131.5	96.5	88	720	320	525	280	331	411.5	659	270	230	161	112

RC2-1090~RC2-1520 Outline



Model	Dimensions															Unit: mm	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O		
RC2-1090B	357.5	435	437	165	1110	228	309	309	312.5	478	130	250	830	110	397.5		
RC2-1280B	383	435	522	165	1160	228	309	309	312.5	478	132	265	872.5	133	397.5		
RC2-1520B	383	435	522	165	1160	228	309	309	312.5	478	132	265	872.5	103	397.5		

Application Limits



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HBCE-RC2-10-A(3000)