

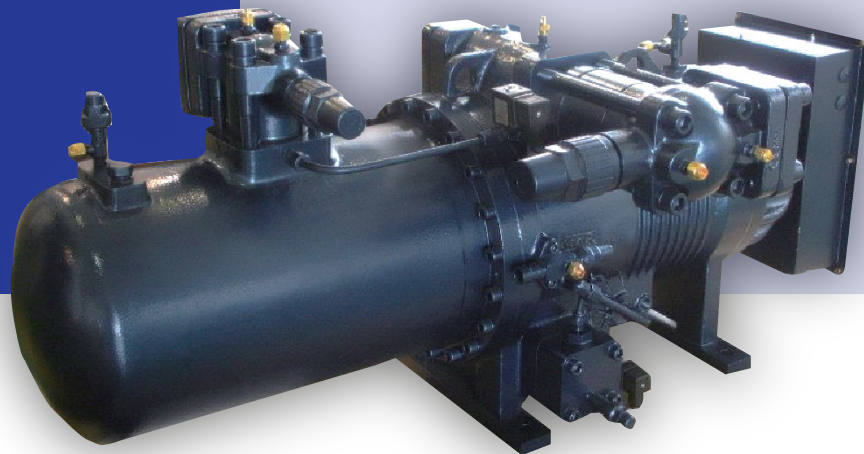


HANBELL

LB Series

Design for low temperature application
Screw compressor dedicated to
R22, R404, R507

High-efficiency Low Temperature Model LB Series Screw Compressor



HANBELL PRECISE MACHINERY CO., LTD

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Highlights of LB Series Screw Compressor



High-efficiency Screw Rotor Profile

- Advanced 5-to-6 rotor profile for low-temperature application patented in Taiwan, US, UK and China
- Designed according to characteristics of refrigerants
- Hyper volumetric efficiency and minimum clearance

High-efficiency Motor

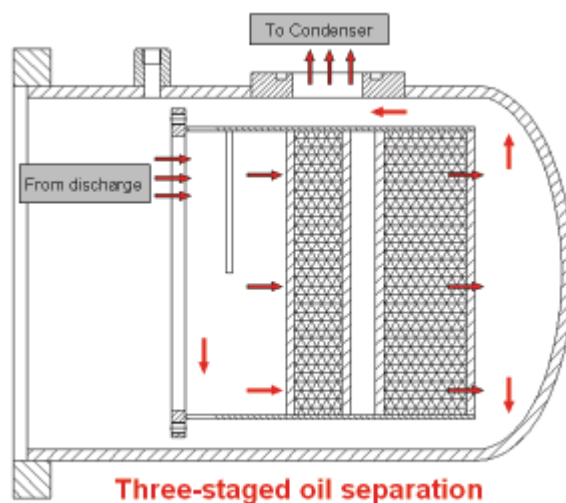
- Available for part winding start or star delta start
- Custom-made for specified voltage and frequency of power
- Motor cooling by independent liquid injection
- Vertical terminal box configuration

Without Capacity Modulation Mechanism

- Start-up by suction gas bypass
- Fixed slide valve with minimum clearance
- Easier for control

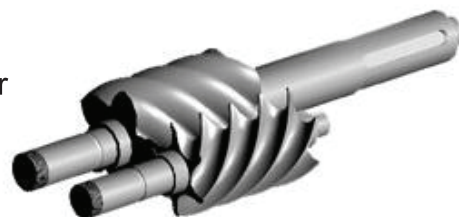
High-performance Integral Oil Separator

- Patented three-staged oil separation design
- Finer size of mesh
- Low pressure drop and oil carry-over
- Detachable demister for cleaning



Complete Protection & Accessories

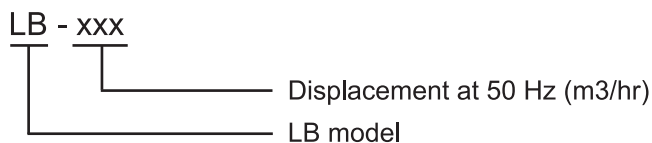
- Built-in motor temperature sensor Pt-100 or Pt-1000
- Discharge temperature thermistor & motor temperature thermistor
- Liquid injection and oil cooler function
- Oil level switch
- Connection for pressure differential switch



Other Advantages

- Higher COP by means of additional medium-pressure gas passage to chamber after motor cooling
- Minimum reversal time after compressor stop with suction regulation valve
- Two optional compressor outlet ports for parallel system application

Compressor Nomenclature



Technical Data LB

MODEL	COMPRESSOR				MOTOR							Lubricant Charge	Oil Heater	Hydrostatic Pressure Test	Weight
	Displacement 60 / 50Hz	Rated Speed 60 / 50Hz	VI	Cap. Control (%)	Type	Nominal Hp	Starting	Voltage (V)		Insulation	Protection	L	W	Kg/cm ² G	kg
	m ³ /hr					60Hz	50Hz	60Hz	50Hz						
LB-100	127/106	3550/2950	2.6	0,100%	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	38	31	208 220 230 380 440 460 480 575	380 400 415	Class F	PTC Protection	4.5	300	42	248
LB-140	167/139					48	40					7			290
LB-180	215/179					63	52					7.5			310
LB-230	269/224					81	67					10			460
LB-250	308/257					81	67					10.5			464
LB-280	330/275					90	75					11			474
LB-360	439/366					108	90					-	-		370
LB-410	499/416					123	102					-	-		416

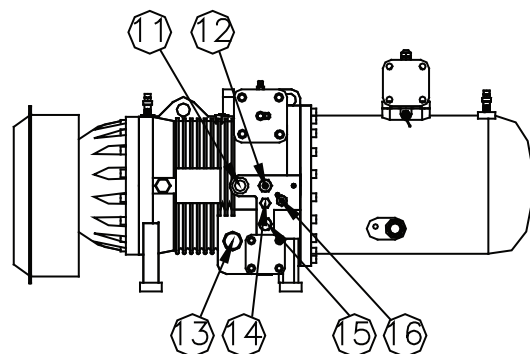
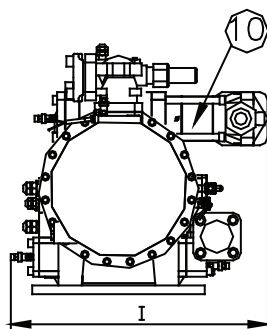
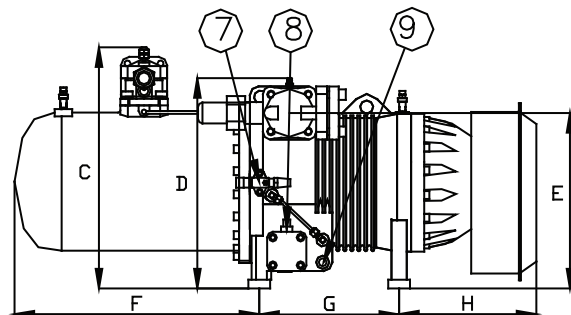
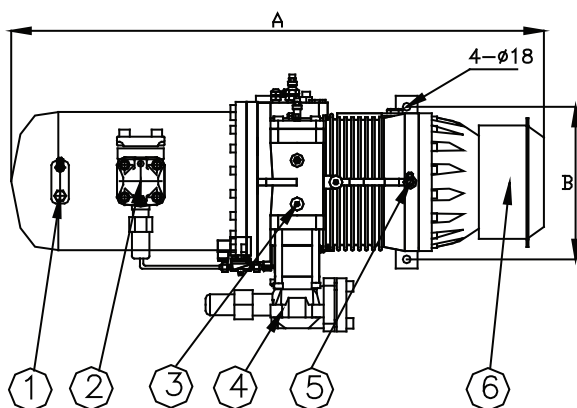
* LB-360, LB-410 are without integral oil separator design

Compressor Outline

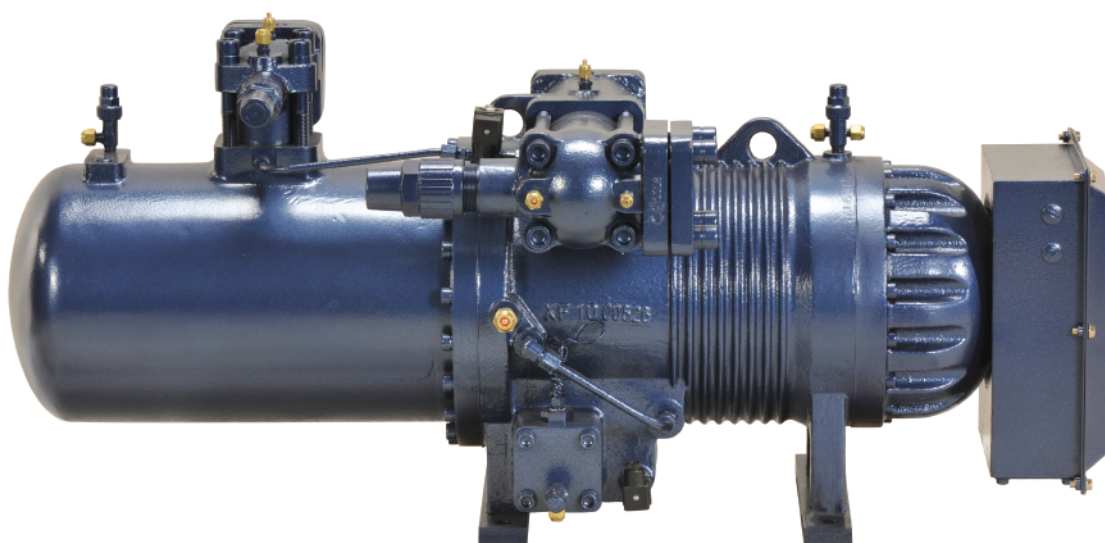
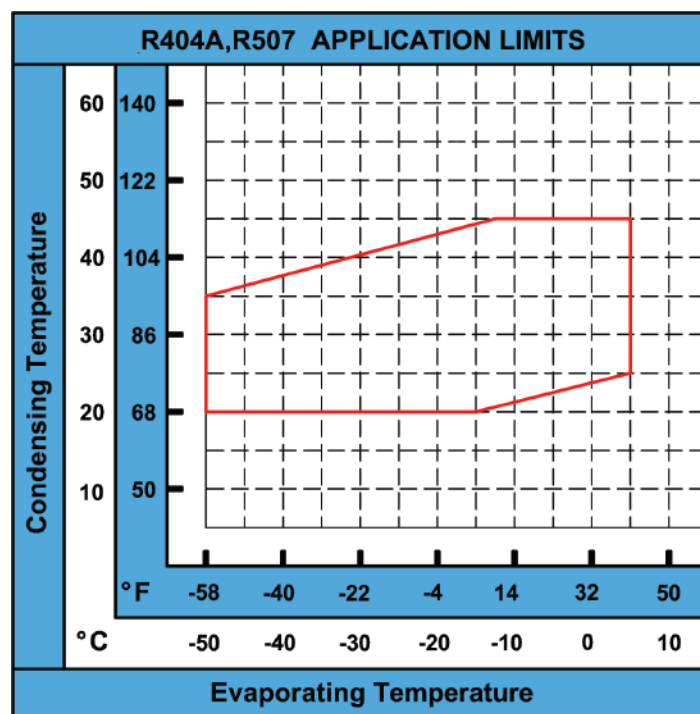
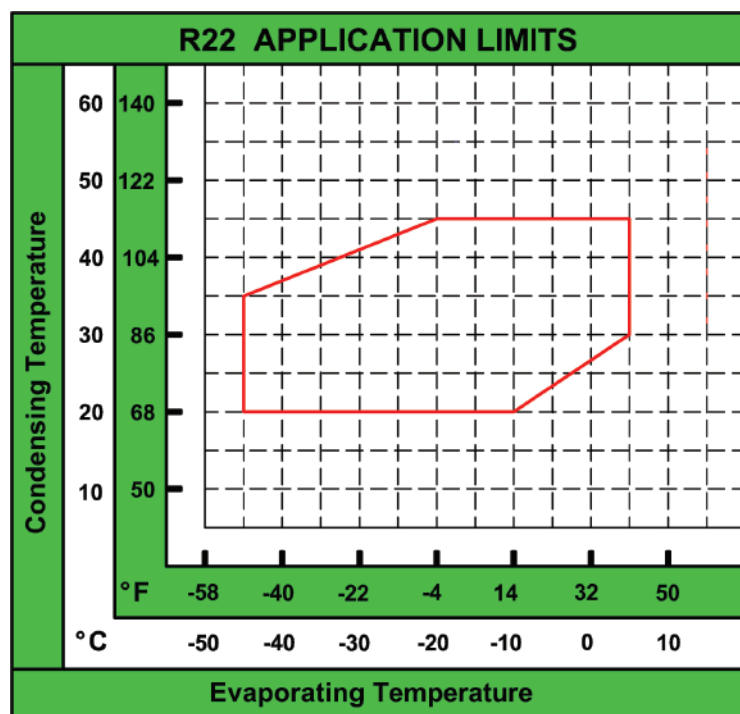
Unit: mm

	A	B	C	D	E	F	G	H	I
LB-100	1150	342	541	475	395	522.5	338	289.5	572
LB-140	1223	350	553	483	403	562	321	315	590
LB-180	1264	350	548	483	403	562	387	315	607
LB-230	1459	386	624	562	483	698	407	354	667
LB-250	1459	386	624	562	483	698	407	354	667
LB-280	1459	386	624	562	483	698	407	354	667

No.	Name	Note	No.	Name	Note
1	Safety valve nut		9	Heater	300W
2	Discharge stop valve		10	Suction check valve	
3	Refrigerant service valve	1/4"	11	Sight glass	
4	Suction stop valve		12	Oil inlet	3/8"
5	Angle valve		13	Nut	
6	Terminal box		14	Oil stop pin	
7	Economizer port	3/8"	15	Nut	
8	Oil level switch connector		16	Liquid injection port	3/8"



Application Limits



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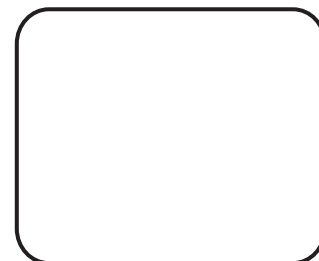
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HBCE-LB-12-C(1000)