

RSB-40

Oil-Injected Rotary Screw Compressor

60Hz	100psi		125psi		150psi		175psi	
Capacity and power: ISO-1217(1996 annex #C)								
Normal working pressure - psi	100		125		150		175	
Capacity at normal working press. min – max - cfm	189		173		150		140	
Airend - rpm	4070		3750		3330		3070	
Drive type	Belt							
Air quality								
Oil content ≤ PPM	3							
Aftercooler CTD. - °F	15							
Cooling: Air cooled compressors								
Cooling air flow - cfm	10300							
Cooling air pressure drop – Pa [inch H ₂ O]	249 [1.0]							
Cooling air temperature rise - °F	34.9							
Motor and electrical values	200V		230V		460V		575V	
Main motor: F-class, IP	ODP	TEFC	ODP	TEFC	ODP	TEFC	ODP	TEFC
Main motor: Efficiency - %	91.7	91.7	93	92.4	93	92.4	93	92.4
Main motor: Nominal rated power – HP	40	40	40	40	40	40	40	40
Main motor: Speed of rotation - rpm	3535	3555	3535	3555	3535	3555	3535	3555
Main motor: FLA	108.3	105.3	94.2	91.6	47.1	45.8	37.7	36.7
Main motor: Locked rotor current – A	693.3	674.2	602.9	586.2	301.4	293.1	241.3	234.5
Main motor: Power Factor	0.86	0.89	0.86	0.89	0.86	0.89	0.86	0.89
Fan motor: Power – HP	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Fan motor: Efficiency - %	82.5	82.5	86.5	86.5	86.5	86.5	86.5	86.5
Fan motor: Speed of rotation – rpm	1740	1755	1740	1755	1740	1755	1740	1755
Fan motor: FLA	5.1	4.7	4.4	4.0	2.2	2.0	1.76	1.62
Control voltage - V	120V	120V	120V	120V	120V	120V	120V	120V
General technical data								
Oil quantity – Gal	7.0							
Alarm high discharge temperature - °F (w/controller only)	215							
Trip high discharge temperature - °F	225+/-10							
Noise levels: dB(A)								
Noise level with enclosure	79							
Noise level without enclosure	84							
Installation condition								
Allowed ambient temperature min - max - °F	32 - 104							
Relative humidity - %	0 - 95							
Compressor dimensions	Base Mtd Open		Base Mtd Encl.		Tank Mtd Open		Tank Mtd Encl.	
Compressor Outlet	1 1/4"NPT		1 1/4"NPT		1 1/2"NPT		1 1/2"NPT	
Length – inch	72		72		80		80	
Width – inch	53		53		53		53	
Height – inch	44		50		81		87	
Weight without built-in dryer – lbs.	1425		1630		1745		1950	
Air Receiver (Tank Mounted and Fully Packaged Unit Only)								
Air Receiver Size (Gal)	N/A		N/A		200		200	
Refrigerated Dryer (Fully Packaged Unit Only)								
Pressure Dew Point - °F	N/A							
Refrigerant	N/A							

Remark:

1. Capacity (FAD) measured in accordance with ISO 1217, Ed 3, Attachment C 1996, Ref. condition: Dry air, suction pressure 1 bar.
2. Sound Pressure Level in accordance with ISO 2151, edition 2004 with a tolerance of 3dB(A).
3. Due to continuous product development at FS-CURTIS, design and specifications are subject to change without notice.