

RSB-50

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	220		204		186		170	
Airend - rpm	4910		4500		4090		3780	
Drive type	Belt							
Air quality								
Oil content ≤ PPM	3							
Aftercooler CTD. - °F	15							
Cooling: Air cooled compressors								
Cooling air flow - cfm	11400							
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 - %	92.4	92.4	93.0	93.0	93.0	93.0	93.0	93.0
Main motor: Nominal rated power – HP	50	50	50	50	50	50	50	50
Main motor: Speed of rotation - rpm	3555	3550	3555	3550	3555	3550	3555	3550
Main motor: FLA	135.7	128.8	118	112	59.1	56.1	47.3	44.9
Main motor: Locked rotor current – A	868.5	798.6	755.2	694.4	378.2	347.8	302.7	278.3
Main motor: Power Factor	0.84	0.89	0.84	0.89	0.84	0.89	0.84	0.89
Fan motor: Power – HP	2	2	2	2	2	2	2	2
Fan motor: Efficiency - %	84.0	84.0	86.5	86.5	86.5	86.5	86.5	86.5
Fan motor: Speed of rotation – rpm	1730	1750	1730	1750	1730	1750	1730	1750
Fan motor: FLA	6.7	6.0	5.8	5.22	2.9	2.61	2.32	2.09
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	82							
Noise level without enclosure	85							
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.	1600	1805	1920	2125				
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.