

# RSB-30

## Oil-Injected Rotary Screw Compressor

60Hz	100psi		125psi		150psi		175psi	
<b>Capacity and power: ISO-1217(1996 annex #C)</b>								
Normal working pressure - psi	100		125		150		175	
Capacity at normal working press. min – max - cfm	135		125		113		101	
Airend - rpm	4170		3840		3540		3160	
Drive type	Belt							
<b>Air quality</b>								
Oil content ≤ PPM	3							
Aftercooler CTD. - °F	15							
<b>Cooling: Air cooled compressors</b>								
Cooling air flow - cfm	7400							
Cooling air pressure drop – Pa [inch H <sub>2</sub> O]	127 [0.51]							
Cooling air temperature rise - °F	46.7							
<b>Motor and electrical values</b>								
	200V		230V		460V		575V	
Main motor: F-class, IP	ODP	TEFC	ODP	TEFC	ODP	TEFC	ODP	TEFC
Main motor: Efficiency - %	91.0	91.0	92.4	91.7	92.4	91.7	92.4	91.7
Main motor: Nominal rated power – HP	30	30	30	30	30	30	30	30
Main motor: Speed of rotation - rpm	3540	3535	3540	3535	3540	3535	3540	3535
Main motor: FLA	79.8	77.7	69.4	67.6	34.7	33.8	27.8	27.0
Main motor: Locked rotor current – A	510.8	489.8	444.2	425.9	222.1	212.9	177.9	170.1
Main motor: Power Factor	0.86	0.89	0.86	0.89	0.86	0.89	0.86	0.89
Fan motor: Power – HP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Fan motor: Efficiency - %	70	78	70	78	70	78	70	78
Fan motor: Speed of rotation – rpm	1730	1740	1730	1740	1730	1740	1730	1740
Fan motor: FLA	2.1	1.9	1.82	1.65	0.91	0.825	0.73	0.66
Control voltage - V	120V	120V	120V	120V	120V	120V	120V	120V
<b>General technical data</b>								
Oil quantity – Gal	4.0							
Alarm high discharge temperature - °F (w/controller only)	215							
Trip high discharge temperature - °F	225+/-10							
<b>Noise levels: dB(A)</b>								
Noise level with enclosure	79							
Noise level without enclosure	83							
<b>Installation condition</b>								
Allowed ambient temperature min - max - °F	32 - 104							
Relative humidity - %	0 - 95							
<b>Compressor dimensions</b>								
	Base Mtd Open	Base Mtd Encl.	Tank Mtd Open	Tank Mtd Encl.				
Compressor Outlet	1”NPT	1”NPT	1”NPT	1”NPT				
Length – inch	60	60	77	77				
Width – inch	41	41	41	41				
Height – inch	39	43	69	74				
Weight without built-in dryer – lbs.	1150	1375	1420	1570				
<b>Air Receiver (Tank Mounted and Fully Packaged Unit Only)</b>								
Air Receiver Size (Gal)	N/A	N/A	120	120				
<b>Refrigerated Dryer (Fully Packaged Unit Only)</b>								
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.