

RSB15

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	69		58		50		45	
Airend - rpm	3150		2720		2370		2190	
Drive type	BSA22S Belt							
Air quality								
Oil content ≤ PPM	3							
Aftercooler CTD. - °F	15							
Cooling: Air cooled compressors								
Cooling air flow - cfm	3900							
Cooling air pressure drop – Pa [inch H ₂ O]	77.1 [0.31]							
Cooling air temperature rise - °F	64.4							
Motor and electrical values								
	200V		230V		460V		575V	
Main motor: F-class, IP	ODP	TEFC	ODP	TEFC	ODP	TEFC	ODP	TEFC
Main motor: Efficiency - %	93.0	92.4	93.0	92.4	93.0	92.4	93.0	92.4
Main motor: Nominal rated power – HP	15	15	15	15	15	15	15	15
Main motor: Speed of rotation - rpm	1775	1765	1775	1765	1775	1765	1775	1765
Main motor: FLA	42.8	41.4	37.2	36.0	18.6	18.0	14.9	14.4
Main motor: Locked rotor current – A	286.6	269.1	249.2	234	124.6	117	99.8	93.6
Main motor: Power Factor	0.80	0.83	0.80	0.83	0.80	0.83	0.80	0.83
Fan motor: Power – HP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Fan motor: Efficiency - %	68	70	68	70	68	70	68	70
Fan motor: Speed of rotation – rpm	1140	1140	1140	1140	1140	1140	1140	1140
Fan motor: FLA	2.3	3.0	2.0	2.6	1.0	1.3	0.8	1.04
Control voltage - V	120V	120V	120V	120V	120V	120V	120V	120V
General technical data								
Oil quantity – Gal	4.0							
Alarm high discharge temperature - °F (w/controller only)	215							
Trip high discharge temperature - °F	225+/-10							
Noise levels: dB(A)								
Noise level with enclosure	74							
Noise level without enclosure	77							
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”NPT	1”NPT	1”NPT	1”NPT				
Length – inch	60	60	73	73				
Width – inch	41	41	41	41				
Height – inch	39	43	65	69				
Weight without built-in dryer – lbs.	940	1090	1175	1325				
Air Receiver (Tank Mounted and Fully Packaged Unit Only)								
Air Receiver Size (Gal)	N/A	N/A	80	80				
Refrigerated Dryer (Fully Packaged Unit Only)								
Pressure Dew Point - °F	N/A							
Refrigerant	N/A							

Remark:

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

RSB20

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	91		81		72		63	
Airend - rpm	4170		3750		3350		2980	
Drive type	BSA22S Belt							
Air quality								
Oil content ≤ PPM	3							
Aftercooler CTD. - °F	15							
Cooling: Air cooled compressors								
Cooling air flow - cfm	4800							
Cooling air pressure drop – Pa [inch H ₂ O]	77.1 [0.31]							
Cooling air temperature rise - °F	28.6							
Motor and electrical values								
	200V		230V		460V		575V	
Main motor: F-class, IP	ODP	TEFC	ODP	TEFC	ODP	TEFC	ODP	TEFC
Main motor: Efficiency - %	91.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
Main motor: Nominal rated power – HP	20	20	20	20	20	20	20	20
Main motor: Speed of rotation - rpm	1770	1765	1770	1765	1770	1765	1770	1765
Main motor: FLA	56.8	55.4	49.4	48.2	24.7	24.1	19.8	19.3
Main motor: Locked rotor current – A	357.9	360.3	311.2	313.3	153.7	156.7	124.7	125.5
Main motor: Power Factor	0.82	0.84	0.82	0.84	0.82	0.84	0.82	0.84
Fan motor: Power – HP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Fan motor: Efficiency - %	68	70	68	70	68	70	68	70
Fan motor: Speed of rotation – rpm	1140	1140	1140	1140	1140	1140	1140	1140
Fan motor: FLA	2.3	3.0	2.0	2.6	1.0	1.3	0.8	1.04
Control voltage - V	120V	120V	120V	120V	120V	120V	120V	120V
General technical data								
Oil quantity – Gal	4.0							
Alarm high discharge temperature - °F (w/controller only)	215							
Trip high discharge temperature - °F	225+/-10							
Noise levels: dB(A)								
Noise level with enclosure	76							
Noise level without enclosure	79							
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”NPT		1”NPT		1”NPT		1”NPT	
Length – inch	60		60		73		73	
Width – inch	41		41		41		41	
Height – inch	39		43		65		69	
Weight without built-in dryer – lbs.	985		1135		1305		1455	
Air Receiver (Tank Mounted and Fully Packaged Unit Only)								
Air Receiver Size (Gal)	N/A		N/A		120		120	
Refrigerated Dryer (Fully Packaged Unit Only)								
Pressure Dew Point - °F	N/A							
Refrigerant	N/A							

Remark:

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

RSB25

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	117		104.5		92		84.5	
Airend - rpm	3750		3350		2980		2830	
Drive type	BSA21S Belt							
Air quality								
Oil content ≤ PPM	3							
Aftercooler CTD. - °F	15							
Cooling: Air cooled compressors								
Cooling air flow - cfm	4800							
Cooling air pressure drop – Pa [inch H ₂ O]	77.1 [0.31]							
Cooling air temperature rise - °F	28.6							
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	92.4	93.6	93.6	93.6	93.6	93.6	93.6
Main motor: Nominal rated power – HP	25	25	25	25	25	25	25	25
Main motor: Speed of rotation - rpm	1770	1765	1770	1765	1770	1765	1770	1765
Main motor: FLA	68.8	67.9	59.8	59	29.9	29.5	23.9	23.6
Main motor: Locked rotor current – A	460.1	420.7	401.3	365.8	200.3	182.9	160.1	146.3
Main motor: Power Factor	0.83	0.84	0.83	0.84	0.83	0.84	0.83	0.84
Fan motor: Power – HP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Fan motor: Efficiency - %	68	70	68	70	68	70	68	70
Fan motor: Speed of rotation – rpm	1140	1140	1140	1140	1140	1140	1140	1140
Fan motor: FLA	2.3	3.0	2.0	2.6	1.0	1.3	0.8	1.04
Control voltage - V	120V	120V	120V	120V	120V	120V	120V	120V
General technical data								
Oil quantity – Gal	4.0							
Alarm high discharge temperature - °F (w/controller only)	215							
Trip high discharge temperature - °F	225+/-10							
Noise levels: dB(A)								
Noise level with enclosure	76							
Noise level without enclosure	79							
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”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.	1060	1210	1380	1530				
Air Receiver (Tank Mounted and Fully Packaged Unit Only)								
Air Receiver Size (Gal)	N/A	N/A	120	120				
Refrigerated Dryer (Fully Packaged Unit Only)								
Pressure Dew Point - °F	N/A							
Refrigerant	N/A							

Remark:

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

RSB30

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	134		123		109		94	
Airend - rpm	4250		3970		3550		3130	
Drive type	BSA21S Belt							
Air quality								
Oil content ≤ PPM	3							
Aftercooler CTD. - °F	15							
Cooling: Air cooled compressors								
Cooling air flow - cfm	7400							
Cooling air pressure drop – Pa [inch H ₂ O]	127 [0.51]							
Cooling air temperature rise - °F	46.7							
Motor and electrical values								
	200V		230V		460V		575V	
Main motor: F-class, IP	ODP	TEFC	ODP	TEFC	ODP	TEFC	ODP	TEFC
Main motor: Efficiency - %	91.0	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
General technical data								
Oil quantity – Gal	4.0							
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	83							
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”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				
Air Receiver (Tank Mounted and Fully Packaged Unit Only)								
Air Receiver Size (Gal)	N/A	N/A	120	120				
Refrigerated Dryer (Fully Packaged Unit Only)								
Pressure Dew Point - °F	N/A							
Refrigerant	N/A							

Remark:

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

RSB40

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	187		175		160		132	
Airend - rpm	3535		3330		3070		2650	
Drive type	BSA31S 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	36.6
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:

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

RSB50

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	223		207		188		170	
Airend - rpm	4100		3850		3560		3280	
Drive type	BSA31S 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	93.6	93.0	93.6	93.0	93.6	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	118.2	112.2	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:

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