

## QSI-500i

Technical Data					
Compressor Drive Motor	Nameplate hp	100	100	125	125
Inlet Capacity	acfm	500	498	495	433
Full Load Operating Pressure	psig	100	110	125	150
Max. Operating Pressure	psig	115	125	140	165
Min. Operating Pressure	psig	75			
Max. Ambient Operating Temp.	°F	115			
Min. Ambient Operating Temp.	°F	34			
Service Line Connection	NPT	2			
Rotor Diameter	mm	255			
Male Rotor Speed	rpm	1780			

Aftercooling Data					
Heat Rejection- Oil Cooler	btu/min	3081	3249	3695	4287
Heat Rejection- Aftercooler	btu/min	650			
Aftercooler Approach to Cooling Air	°F	12-15			
Max Static Backpressure	" H <sub>2</sub> O	0.25			
Fan Motor Power	nameplate hp	3			
Fan Motor Speed	rpm	1200			
Fan Flow	cfm	7100			

Water Cooled Cooling Data					
Heat Rejection- Oil Cooler	btu/min	3686	3886	4420	5129
Heat Rejection- Aftercooler	btu/min	1043			
Approach Temperature	°F	12-15			
Water Flow w/aftercooler at 70°F	gpm	25	26	32	44
Water Flow w/aftercooler at 90°F	gpm	32.3	34	41	57
Recommended Inlet H <sub>2</sub> O Pressure	psig	40-100			
H <sub>2</sub> O In/Out Size	in. (NPT)	1.5			
Vent Fan Motor (w/ canopy)	Nameplate hp	0.25			

Compressor Fluid Data					
Total Fluid Capacity	gal	15			
Reservoir Fluid Capacity	gal	12			
Normal Airend Discharge Temp.	°F	190			
Typical Fluid Carryover	ppm	3			

Dryer Data					
Refrigerant Type		R-134a			
Compressor Power	hp	2.3			
Fan Motor Power	hp	1/4			
Max Fuse or Circuit Breaker	A	15			

Sound Data (at 1 meter)					
Unenclosed	dB(A)	77			
Standard Enclosure	dB(A)	70			

Energy Consumption- Air & Water Cooled					
Full Load Drive Motor HP	Bhp	108.5	114.4	123.4	125.9
Drive Motor Efficiency	%	94%	94%	95%	95%
Unloaded Drive Motor HP	Bhp	18.0	18.0	20.6	20.6
Fan Motor HP	Bhp	2.1	2.1	2.1	2.1
Fan Motor Efficiency	%	82%	82%	88%	88%
FL Drive Motor Consumption	kW	86.1	90.7	97.5	99.4
FL Fan Motor Consumption	kW	1.9	1.9	1.8	1.8
Total Package Consumption- AC	kW	88.0	92.6	99.2	101.2
Total Package Specific Power- AC	kW/100 cfm	17.6	18.6	20.0	23.4
	bhp/100 cfm	23.6	24.9	26.9	31.3
Total Package Consumption- WC	kW	84.7	89.3	95.2	97.1
Total Package Specific Power- WC	kW/100 cfm	16.9	17.9	19.2	22.4
	bhp/100 cfm	2.3	2.4	2.6	3.0

Dimensions					
Length	in (mm)	91 (2311)			
Width	in (mm)	54 (1372)			
Height	in (mm)	75 (1905)			
Approx. Weight	lbs (kg)	4450 (2018)		4550 (2064)	