

Quincy Rotary Screw Sales Manual

Model: QSI-925

TECHNICAL DATA

Compressor Drive Motor	Nameplate HP	200
Inlet Capacity	ACFM	925
Full Load Operating Pressure	PSIG	125
Max. Operating Pressure	PSIG	140
Min. Operating Pressure	PSIG	75
Max. Ambient Operating Temp.	Degrees F	115-Open 110-Enclosed
Min. Ambient Operating Temp.	Degrees F	32
Service Line Connection Size	In./NPT	3
Rotor Diameter	mm	321
Male Rotor Speed	RPM	1785
Female Rotor Speed	RPM	1190
Rotor Tip Speed	M/sec	30.03

AFTERCOOLING DATA

Heat Rejection - Oil Cooler	BTU/MIN	7730
Aftercooler	BTU/MIN	1610
Aftercooler Approach		
(@STD. Conditions)	Degrees F	3-5
Max. Allowable Static Backpressure	In./H ₂ O	0.125
Fan Motor	Nameplate HP	5
Fan Motor	RPM	1180
Fan Flow	CFM	19300

WATER COOLED COOLING DATA

(Consult factory for water temperatures over 90°F and for water/glycol cooling systems.)

Aftercooler Approach to Cooling		
Water Temperature	Degrees F	13-18
Water Flow l/aftercooler at 50 F	GPM	10.6
70 F	GPM	14.8
90 F	GPM	25.6
Water Flow w/aftercooler at 50 F	GPM	14.1
70 F	GPM	19.1
90 F	GPM	32.4
Recommended Inlet H ₂ O Pressure	PSIG	40-100
H ₂ O In/Out Pipe Size	In./NPT	1.25
Vent Fan Motor (WCW)	Nameplate HP	1/2

COMPRESSOR FLUID DATA

Fluid Flow	GPM	59.5
Total Fluid Capacity	GAL	46
Reservoir Fluid Capacity	GAL	37.25
Total Reservoir Volume	Cu.Ft.	17.33
Normal Airend Discharge Temp.	Degrees F	175-195
Typical Fluid Carryover	PPM	1.5-5

SOUND DATA AC/WC (at 1 meter)

Unenclosed		
	dB(A)	89/86
Standard Enclosure		
	dB(A)	85/79
Low Sound Enclosure	(AC)	
	dB(A)	82

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TYPICAL ENERGY DATA

Full Load Drive Motor HP	BHP	223
Unloaded Drive Motor HP	BHP	40.3
Fan Motor HP	BHP	5.5
Drive Motor Service Factor		1.15
Drive Motor Speed	RPM	1785

DIMENSIONS

Length	Inches	120
Width	Inches	76
Height	Inches	74

Full Package Specific Power per CAGI-PNEUROP PN2CPTC2 Test Code:

QSI-925

Package Discharge Pressure-PSIG		125
AIR COOLED		
Full Load Drive Motor Horsepower	BHP	223
Unloaded Drive Motor Horsepower	BHP	40.3
Fan Motor Horsepower	BHP	5.5
Full Load Drive Motor Consumption	KW	176
Full Load Fan Motor Consumption	KW	4.2
Transformer Power Consumption	KW	.14
Total Package Electrical Consumption	KW	180.34
Specific Power Requirement	KW/100CFM	19.5
	BHP/100CFM	24.7

WATER COOLED - NO CANOPY

Full Load Drive Motor Horsepower	BHP	223
Unloaded Drive Motor Horsepower	BHP	40.3
Fan Motor Horsepower	BHP	N/A
Full Load Drive Motor Consumption	KW	176
Full Load Fan Motor Consumption	KW	N/A
Transformer Power Consumption	KW	.14
Total Package Electrical Consumption	KW	176.14
Specific Power Requirement	KW/100CFM	19.04
	BHP/100CFM	24.11

WATER COOLED - WITH CANOPY

Full Load Drive Motor Horsepower	BHP	223
Unloaded Drive Motor Horsepower	BHP	40.3
Vent Fan Motor Horsepower	BHP	.5
Full Load Drive Motor Consumption	KW	176
Vent Fan Motor Consumption	KW	0.4
Transformer Power Consumption	KW	.14
Total Package Electrical Consumption	KW	176.54
Specific Power Requirement	KW/100CFM	19.09
	BHP/100CFM	24.16