



Nominal Power - Main Motor	Model	QGV50		
Nominal Power - Main Motor	kW	37		
Nominal Power - Main Motor	HP	50		
Rated Discharge Pressure	Pressure	100 Psi	125 Psi	150 Psi

Reference conditions

Relative humidity	bar abs	1		
Ambient temperature	%	0		
Setting thermostatic valve	°F	68		
Nominal motor power	°F	181		
Minimum working pressure	HP	50		
Maximum working pressure 150 psi Machine	psi	75		
Min/Max ambient temperature	(2) psi	150		
Oil Capacity	°F	32 / 115		
	(9) Gallons	4.5		

Performance Data Standard Unit

	psig	100 Psi	125 Psi	150 Psi
--	-------------	----------------	----------------	----------------

Compressor Motor RPM		Male Rotor Shaft rpm			
859	963	(1) cfm	60.9	59.1	57.5
1070	1200	(1) cfm	79.6	76.1	75.3
1178	1321	(1) cfm	87.7	85.8	84.2
1304	1462	(1) cfm	98.4	95.5	95.4
1873	2100	(1) cfm	144.0	144.0	142.1
2062	2312	(1) cfm	160.1	158.5	157.7
2282	2559	(1) cfm	178.8	175.5	175.5
2676	3000	(1) cfm	211.0	209.4	208.8
2945	3302	(1) cfm	232.4	231.2	
3260	3655	(1) cfm	259.2		

Package Power		Male Rotor Shaft rpm			
859	963	kW	14.8	16.8	18.7
1070	1200	kW	18.1	20.0	22.2
1178	1321	kW	19.5	21.8	24.0
1304	1462	kW	21.4	23.7	26.2
1873	2100	kW	29.3	32.8	35.4
2062	2312	kW	32.1	35.6	38.5
2282	2559	kW	35.4	38.8	42.0
2676	3000	kW	41.0	45.2	48.6
2945	3302	kW	44.8	49.3	
3260	3655	kW	49.4		

Compressor SER		Male Rotor Shaft rpm			
859	963	(5) kW/100cfm	24.3	28.4	32.5
1070	1200	(5) kW/100cfm	22.7	26.3	29.5
1178	1321	(5) kW/100cfm	22.2	25.4	28.5
1304	1462	(5) kW/100cfm	21.7	24.8	27.5
1873	2100	(5) kW/100cfm	20.3	22.8	24.9
2062	2312	(5) kW/100cfm	20.0	22.5	24.4
2282	2559	(5) kW/100cfm	19.8	22.1	23.9
2676	3000	(5) kW/100cfm	19.4	21.6	23.3
2945	3302	(5) kW/100cfm	19.3	21.3	
3260	3655	(5) kW/100cfm	19.1		

Power input at no load	kW	0		
Power input cooling fan(s)	kW	3.1		
Inverter Drive Efficiency	(3) %	98		
Drive motor efficiency	(3) %	93		
Fan motor efficiency	(3) %	71.0		



Residual oil content in air	ppm	3
Noise level - Air Cooled	dB(A)	77

Design Data **QGV 50**

Dimensions (maximum)			
Length	inches	67	
Width	inches	37.7	
Height	inches	66	
Net Weight - Air Cooled	lbs	2277	
Dim. of air outlet connection	inches NPT	1 1/2"	(MALE)
Moisture Separator Float discharge connection	inches NPT	1/4"	(FEMALE)
Aftercooler CTD	(°F)	7-13	
Ventilation air delivery @ 68°F	cfh	503658	
Max. allowable pressure drop in ducting @115F	in H2O	0.25	
Recoverable Energy	(BTU/MIN)	2184	
Full load current (Amps)	(7) (8) 230/3/60	132	
Full load current (Amps)	(7) (8) 380/3/60	80	
Full load current (Amps)	(7) (8) 460/3/60	66	
Full load current (Amps)	(7) (8) 575/3/60	53	

Watercooled Performance Data **QGV 50**

Heat Rejection Oil	btu/min	1949	
Heat Rejection Air	btu/min	346	
Approach Temperature Air	(°F)	15	
Water Flow w/aftercooler @50°F	GPM	5	
Water Flow w/aftercooler @70°F	GPM	7	
Water Flow w/aftercooler @90°F	GPM	16	
Water Piping connection size	Inches NPT	1	(FEMALE)

Notes:

- (1) FAD (Free Air Delivery) is full package performance including all losses. Tested in accordance with DOE
 - (2) Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure
 - (3) IE3 efficiency motor
 - (4) Measured at rated capacity and rated pressure
 - (5) Specific power Rated and Certified in accordance with Annex C to DOE
 - (6) Measured according to ISO 2151: 2004 using ISO 9614/2 (sound intensity method).
 - (7) 90°C copper cables. Always apply local electrical codes for sizing cables and fusing.
 - (8) Fast Acting Class-J, T or Semiconductor type fuse required. Apply local electrical codes for fuse sizing
 - (9) Fluid volumes listed are approximate. See operator manual for coolant fill procedure.
- Design and specifications are subject to change without notice or obligation.