



Performance Data Sheet

Proposal: 2025 Q 5 Alternate: 1

Alternate Desc:

Purchaser: Tamarack Valley

Destination:

Purch. Ref:

Application:

User: JB

Date: 11/06/2025

Serial #:

Operating Conditions

Required Flow Rate: 5.00 e3m3/d
Gas Data @ (15°C, 101.325 kPa)
Gas Handled: Gas Mixture
Gas Analysis Entered
Water Vapor Present
Specific Gravity: 0.83 MW= 23.90
Ratio/specific heats Cp/Cv: 1.221

Site Data

Elevation 2,500 Feet
Atmospheric Pressure: 13.42 PSI

Inlet Conditions

Pressure, at flange: 0.00 PSIG
Temperature: 104.00 F°

Discharge Conditions

Pressure, at flange: 55.00 PSIG

Expected Performance

Model:	10G	Drive Type:	Direct
Speed:	460 RPM	Port Angle:	125 Degrees
Required Power:	35.30 HP		
Operating Torque:	403.00 lbf-ft	Gas Discharge Temperature:	323.00 F°
Achieved Flow Rate:	5.00 e3m3/d @ (15°C, 101.325 kPa)	Coolant In Temperature:	120.00 F°
		Coolant Out Temperature:	135.00 F°
Discharge Pressure:	55.00 PSIG	Coolant Flow Rate:	4.30 gpm
Pressure Ratio:	5.10	Cooling Media:	60/40 Glycol/Water
		Jacket Heat:	449.00 btu/min

Warnings: Compressor may be V-belt driven with the sheave on the shaft. Minimum sheave diameter = 15.188 in. 10G

Lubrication Recommendations based on above operating conditions

Total Number of Feeds: 7
Oil Viscosity Grade: SAE 50 (ISO VG 220) Multiplier: 1.20
Compressor Lube Rate: 4 Drops/min per feed (14000 drops/pint)
Total Oil Flow Rate: 0.12 Pints/hr (2.95 Pints/day)

Double the oil feed rate for the initial break-in period of 300 hrs. Criteria for correct oil flow rate is pints per hour. Drops per minute info is for initial startup only! Please verify correct pints per hour flow rate after 24-48 hours of operation. Please refer to the Instruction Manual for additional information.

Notes:

Guarantee Clause:

The Performance Guarantee on Volume and Horsepower is subject to a tolerance of 5%. Refer to the Ro-Flo Operator Manual for more information.

Special Warranty Provision:

The Company shall not be responsible for damage caused by corrosion, carryover in the gas, or improper operation on the purchaser's part.

Verification of Conditions:

Expected Performance is based on the Process Requirements listed above. Customer is responsible for verifying the Process Requirements prior to accepting the Expected Performance.



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Gas Analysis

<u>Gas Name</u>	<u>MOL %</u>	<u>Mol Weight</u>	<u>Spec Gravity</u>	<u>KValue</u>
Butane	2.79	58.12	2.01	1.10
Carbon Dioxide	0.37	44.01	1.52	1.29
Decane	0.00	142.28	4.91	1.04
Ethane	13.10	30.07	1.04	1.19
Helium	0.01	4.00	0.14	1.67
Heptane	0.48	100.20	3.46	1.05
Hexane	0.62	86.18	2.98	1.06
Hydrogen	0.00	2.02	0.07	1.40
Hydrogen Sulfide	0.00	34.08	1.18	1.33
Isobutane	1.42	58.12	2.01	1.10
Isopentane	0.78	72.15	2.49	1.09
Methane	70.28	16.04	0.55	1.30
Nitrogen	1.26	28.01	0.97	1.40
Nonane	0.00	128.26	4.43	1.04
Octane	0.00	114.23	3.94	1.04
Pentane	0.82	72.15	2.49	1.09
Propane	8.07	44.10	1.52	1.13
Total:	100.00	23.90	0.83	1.22

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Gas Analysis Entered
Water Vapor Present
Specific Gravity: 0.83 MW= 23.90
Ratio/specific heats Cp/Cv: 1.221

Site Data

Elevation 2,500 Feet
Atmospheric Pressure: 13.42 PSI

Inlet Conditions

Pressure, at flange: 0.00 PSIG
Temperature: 104.00 F°

Discharge Conditions

Pressure, at flange: 55.00 PSIG

Expected Performance

Model:	10G	Drive Type:	Direct
Speed:	1,039 RPM	Port Angle:	125 Degrees
Required Power:	79.70 HP		
Operating Torque:	402.90 lbf-ft	Gas Discharge Temperature:	323.00 F°
Achieved Flow Rate:	15.00 e3m3/d @ (15°C, 101.325 kPa)	Coolant In Temperature:	120.00 F°
		Coolant Out Temperature:	135.00 F°
Discharge Pressure:	55.00 PSIG	Coolant Flow Rate:	9.60 gpm
Pressure Ratio:	5.10	Cooling Media:	60/40 Glycol/Water
		Jacket Heat:	1,014.00 btu/min

Warnings: Compressor may be V-belt driven with the sheave on the shaft. Minimum sheave diameter = 15.188 in. 10G

Lubrication Recommendations based on above operating conditions

Total Number of Feeds: 7
Oil Viscosity Grade: SAE 50 (ISO VG 220) Multiplier: 1.20
Compressor Lube Rate: 9 Drops/min per feed (14000 drops/pint)
Total Oil Flow Rate: 0.28 Pints/hr (6.67 Pints/day)

Double the oil feed rate for the initial break-in period of 300 hrs. Criteria for correct oil flow rate is pints per hour. Drops per minute info is for initial startup only! Please verify correct pints per hour flow rate after 24-48 hours of operation. Please refer to the Instruction Manual for additional information.

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Helium	0.01	4.00	0.14	1.67
Heptane	0.48	100.20	3.46	1.05
Hexane	0.62	86.18	2.98	1.06
Hydrogen	0.00	2.02	0.07	1.40
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Isopentane	0.78	72.15	2.49	1.09
Methane	70.28	16.04	0.55	1.30
Nitrogen	1.26	28.01	0.97	1.40
Nonane	0.00	128.26	4.43	1.04
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