



Vacuum Solutions Division

Principal Data

*** For internal use only***

Preliminary AML 9820 7262 49

QSV 345 standard

REFERENCE CONDITIONS

Relative humidity (%)
Air inlet temperature (°F)
Cooling medium inlet air temperature (°F)
Exhaust back pressure (psi(g))
Motor shaft speed (rpm)
Setpoint thermostatic valve (°F)
Oil type

0
68
68
0
4500
181
synthetic

LIMITATIONS

Minimum ambient temperature (°F)
Maximum ambient temperature (°F)
Minimum allowable gas inlet temperature (°F)
Maximum allowable gas inlet temperature (°F)
Maximum inlet pressure ("Hg(g))
Maximum oil separator pressure (psi(g))
Maximum exhaust back pressure (psi(g))
Maximum altitude (ft) - refers to the Product Manager at higher altitudes
Minimum motor shaft speed (rpm)
Maximum motor shaft speed (rpm)
Minimum inlet pressure for water vapour with open gas ballast ("HgV)
Maximum inlet pressure for water vapour with open gas ballast ("HgV)
Maximum water vapour pumping rate with open gas ballast (lb/h)

32
115
14
158
1
7
1
3281
600
4500
29.9
28.9
28

PERFORMANCE DATA

Ultimate pressure ("HgV) (2)
Maximum displacement (cfm)

29.9
357

Volumetric flowrate at the canopy (acfm) (1)

rpm	Pressure "HgV								
	18.1	21.1	24.0	27.0	27.7	28.4	29.3	29.8	29.9
600	44	43	43	43	43	42	40		
1000	73	72	72	72	71	70	66	47	
2000	145	145	144	143	142	140	133	94	49
2250	156	163	162	161	160	157	149	106	55
2700	188	199	197	196	194	191	182	146	66
3000		223	221	219	217	214	203	173	73
3250		240	238	234	232	231	219	187	79
3800			277	272	271	268	248	220	92
4000				286	286	282	257	231	97
4350				307	306	300	285	249	106
4500					314	308	297	257	109

Total electrical power input (kW)	Pressure "HgV								
rpm	18.1	21.1	24.0	27.0	27.7	28.4	29.3	29.8	29.9
600	2.1	1.9	1.6	1.3	1.2	1.2	1.1		
1000	3.5	3.1	2.6	2.2	2.1	1.9	1.8	2.2	
2000	7.1	6.2	5.2	4.4	4.1	3.9	3.6	4.0	3.7
2250	7.4	6.9	5.9	4.9	4.6	4.3	4.0	4.5	4.1
2700	8.0	8.5	7.2	5.9	5.6	5.3	4.9	5.0	5.0
3000	9.9	9.6	8.0	6.6	6.3	5.9	5.5	5.3	5.6
3250		10.9	8.9	7.3	6.9	6.6	6.2	5.9	6.2
3800			10.9	8.8	8.4	8.0	7.5	7.2	7.4
4000				9.4	9.0	8.5	7.9	7.7	7.9
4350				10.9	10.3	9.6	9.0	8.5	8.6
4500					10.9	10.1	9.4	8.9	8.9

Main shaft power (hp)	Pressure "HgV								
rpm	18.1	21.1	24.0	27.0	27.7	28.4	29.3	29.8	29.9
600	2.2	1.8	1.5	1.2	1.1	1.0	0.9		
1000	3.9	3.3	2.7	2.2	2.1	1.9	1.8	2.2	
2000	8.1	7.0	5.9	4.8	4.5	4.2	3.9	4.4	4.0
2250	8.5	7.9	6.7	5.4	5.1	4.8	4.4	5.0	4.6
2700	9.1	9.8	8.3	6.8	6.3	6.0	5.5	5.7	5.6
3000	11.6	11.2	9.3	7.6	7.1	6.7	6.2	6.0	6.3
3250		12.8	10.3	8.4	7.9	7.5	7.0	6.7	7.0
3800			12.7	10.2	9.7	9.2	8.5	8.3	8.4
4000				10.9	10.4	9.8	9.0	8.8	9.0
4350				12.7	11.9	11.2	10.3	9.8	9.9
4500					12.6	11.7	10.8	10.2	10.3

Maximum oil consumption (L/100hrs)

Gas exhaust temperature (°F)

Minimum Sound pressure level with tolerance dB(A) (3)

Maximum Sound pressure level with tolerance dB(A) (3)

Fan electrical power input (hp)

Maximum oil content of exhaust air (ppm)

0.13

ambience + 113

51 / 3

68 / 3

0.40

3

DESIGN DATA

Canopy length (in)

Canopy width (in)

Canopy height (in)

Shipping length (in)

Shipping width (in)

Shipping height (in)

Net weight (lbs)

Shipping weight (lbs)

Number of compression stages

Maximum male rotor speed (rpm)

Oil capacity (approx.) (gal)

Nominal shaft power (hp)

Full Load Amps at 460V (amps)

Drive motor efficiency at full load (%)

Fan motor efficiency (%)

Electrical cable passage ((M))

Cooling air flow referred to air inlet grating vacuum pump (cfm)

Inlet connection

Outlet connection

50

37

43

55

41

53

1102

1224

1

4500

4

10

15.2

89.1

73

40

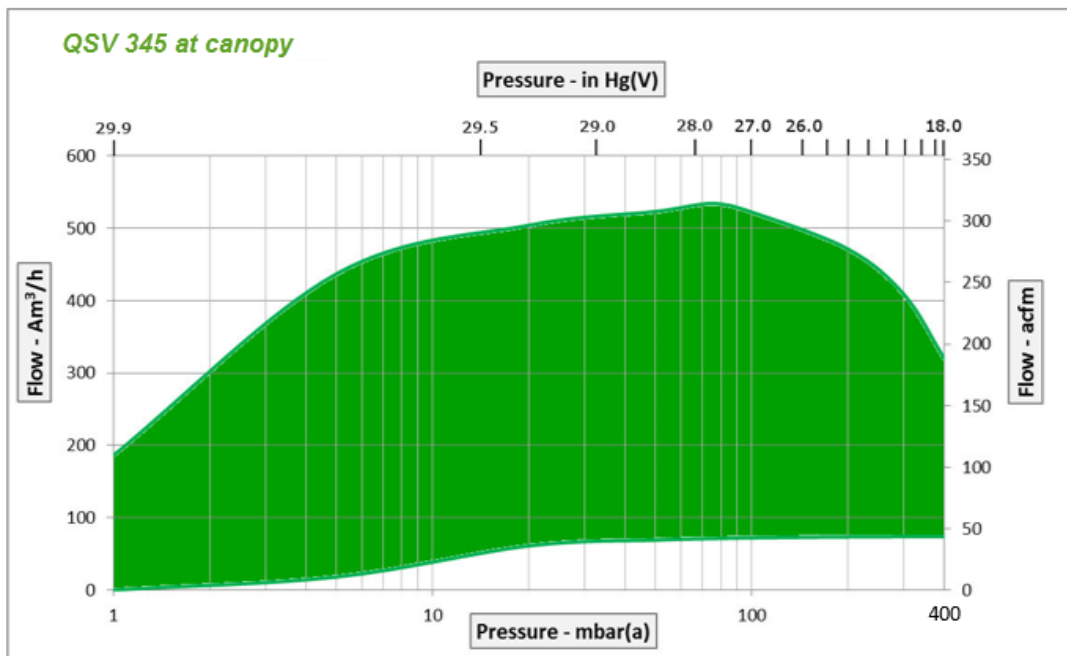
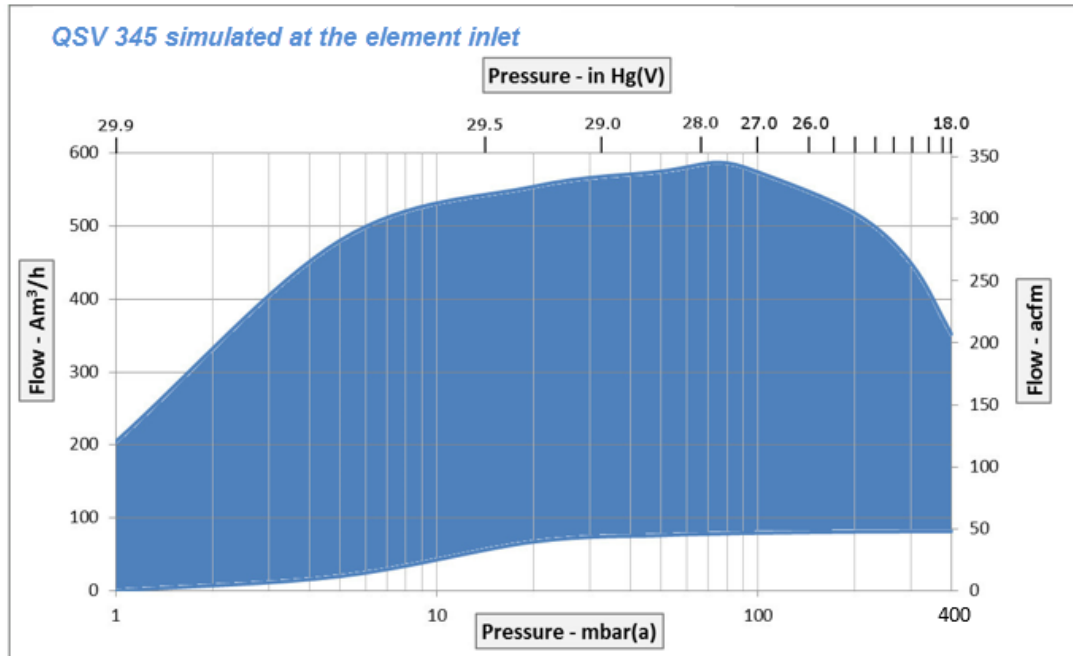
1059

3" Flange

2.5" NPT

REMARKS

- (1) Measured according ISO 21360-2:2012(E)
- (2) Volumetric flowrate measured according ISO 21360-2:2012(E). Tolerance: 0,20 mbar(a)
- (3) Measured according to ISO 2151:2004 using ISO 9614/2 (sound intensity method)



Evacuation time : 1000 L vessel with 1m tube DN80

