



## Vacuum Solutions Division

### Principal Data

\*\*\* For internal use only\*\*\*

Preliminary AML 9820 7262 49

### QSV 530 standard

#### REFERENCE CONDITIONS

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

0
20
20
0
7000
83
mineral

#### LIMITATIONS

Minimum ambient temperature (°C)  
Maximum ambient temperature (°C)  
Minimum allowable gas inlet temperature (°C)  
Maximum allowable gas inlet temperature (°C)  
Maximum inlet pressure (mbar(a))  
Maximum oil separator pressure (mbar(g))  
Maximum exhaust back pressure (mbar(g))  
Maximum altitude (m) - 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 (mbar(a))  
Maximum inlet pressure for water vapour with open gas ballast (mbar(a))  
Maximum water vapour pumping rate with open gas ballast (kg/h) (1)

0
46
-10
70
1050
500
100
1000
600
7000
0.35
24
12.8

#### PERFORMANCE DATA

Ultimate pressure (mbar(a)) (2)  
Maximum displacement (m³/h)

0.5
877

Volumetric flowrate at the canopy (Am³/h) (1)		Pressure mbar(a)							
rpm	400	300	200	100	75	50	20	5	1
600	74	74	73	73	72	71	68		
1000	123	123	122	122	121	119	113	80	
2000	247	246	245	244	242	237	226	160	83
2250	265	277	275	274	272	267	254	180	93
3000	386	379	375	372	368	364	345	293	124
4000	507	512	516	487	486	479	436	393	165
4600	570	575	574	555	548	537	515	440	190
5000		619	613	608	603	594	559	452	206
5350		664	650	642	636	627	589	470	221
6000			714	696	696	689	646	502	248
6100			733	706	705	698	655	512	252
6800				778	769	762	720	583	281
7000					787	780	738	603	289

Total electrical power input (kW)	Pressure mbar(a)								
rpm	400	300	200	100	75	50	20	5	1
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	8.0	6.9	5.9	4.9	4.6	4.3	4.0	4.5	4.1
3000	11.3	9.6	8.0	6.6	6.3	5.9	5.5	5.3	5.6
4000	15.6	13.7	12.2	9.4	9.0	8.5	7.9	7.7	7.9
4600	19.4	16.3	14.1	11.8	11.2	10.5	9.8	9.3	9.2
5000		17.7	15.4	13.3	12.6	12.1	11.2	10.8	10.4
5350		20.6	16.9	14.3	13.7	13.0	12.1	11.7	11.5
6000			19.6	16.7	15.7	14.8	13.9	13.4	13.4
6100			20.6	17.2	16.2	15.3	14.4	13.9	13.8
6800				20.8	19.7	18.6	17.6	17.2	16.9
7000					20.7	19.5	18.5	18.2	17.8

Main shaft power (kW)	Pressure mbar(a)								
rpm	400	300	200	100	75	50	20	5	1
600	1.6	1.4	1.1	0.9	0.8	0.8	0.7		
1000	2.9	2.5	2.0	1.7	1.6	1.4	1.3	1.7	
2000	6.0	5.2	4.4	3.6	3.4	3.2	2.9	3.3	3.0
2250	6.8	5.9	5.0	4.1	3.8	3.6	3.3	3.8	3.4
3000	9.9	8.3	6.9	5.7	5.3	5.0	4.7	4.5	4.7
4000	13.7	12.2	10.8	8.1	7.7	7.3	6.7	6.6	6.7
4600	17.1	14.4	12.5	10.3	9.7	9.2	8.4	8.0	8.0
5000		15.6	13.6	11.7	11.1	10.6	9.8	9.5	9.1
5350		18.2	14.8	12.6	12.0	11.4	10.6	10.3	10.0
6000			17.3	14.7	13.7	13.0	12.1	11.7	11.7
6100			18.2	15.2	14.2	13.4	12.5	12.1	12.1
6800				18.4	17.4	16.4	15.5	15.1	14.8
7000					18.3	17.2	16.3	16.0	15.6

Maximum oil consumption (L/100hrs)

Gas exhaust temperature (°C)

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

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

Fan electrical power input (kW)

Maximum oil content of exhaust air (mg/m³)

0.23
ambience + 63
51 / 3
76 / 3
0.3
3

## DESIGN DATA

Canopy length (m)

Canopy width (m)

Canopy height (m)

Shipping length (m)

Shipping width (m)

Shipping height (m)

Net mass (kg)

Shipping mass Europe (kg)

Shipping mass overseas (kg)

Number of compression stages

Maximum male rotor speed (rpm)

Oil capacity (approx.) (l)

Nominal shaft power (kW)

Drive motor efficiency at full load (%)

Fan motor efficiency (%)

Electrical cable passage ((M))

1.266
0.934
1.083
1.40
1.04
1.34
520
525
575
1
7000
16
15
89.5
73
40

Cooling air flow referred to air inlet grating vacuum pump (m<sup>3</sup>/s)

Connection inlet

Connection outlet

0.6

PN6 DN80 flange

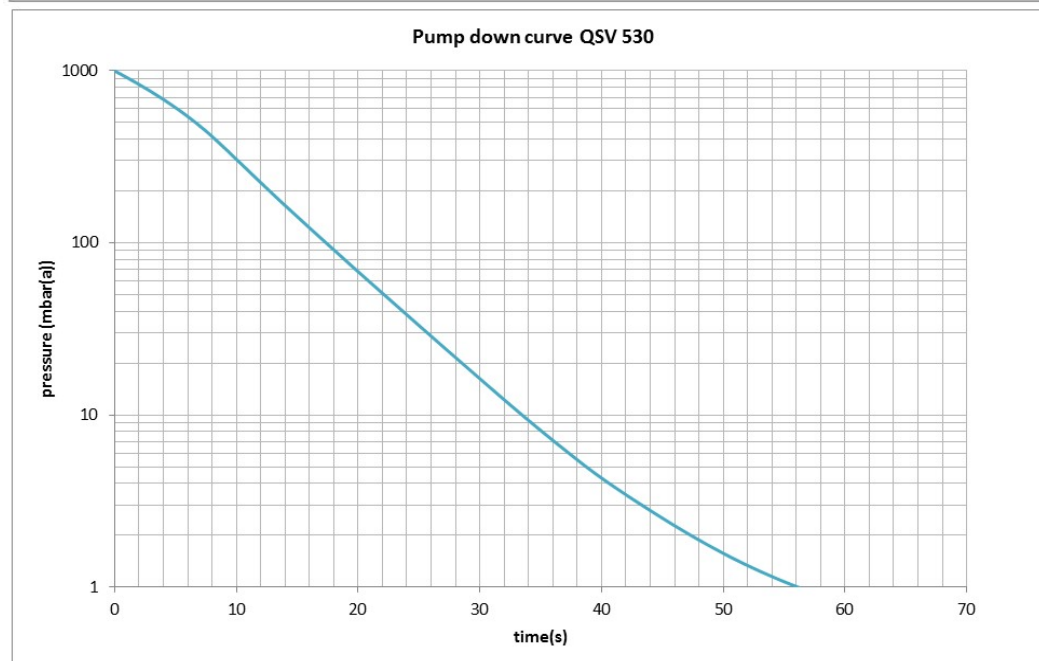
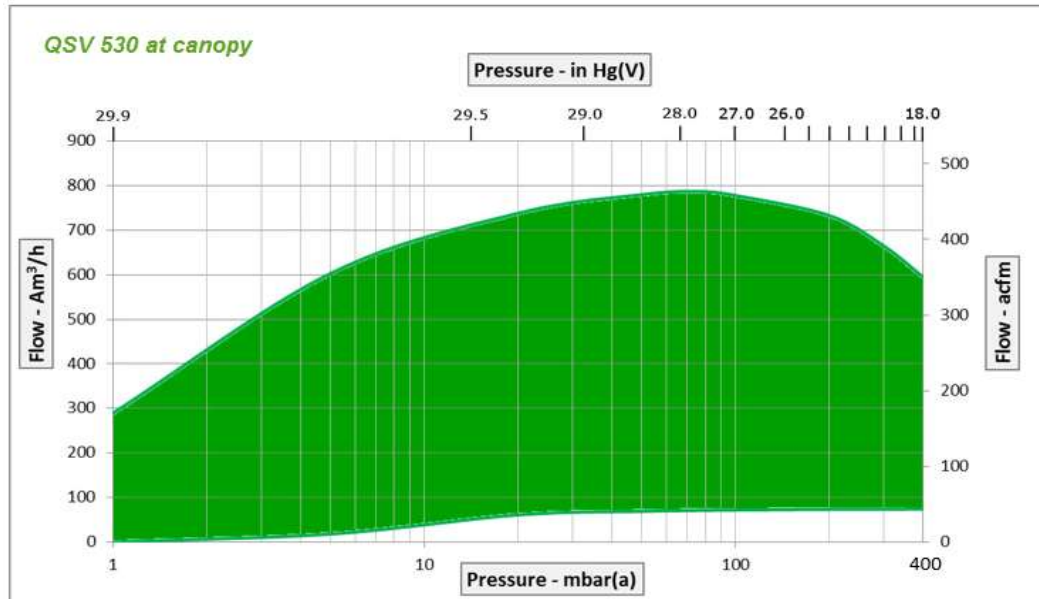
Non std DN60

#### 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 DN60