



## Vacuum Solutions Division

### Principal Data

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

Preliminary AML 9820 7262 49

### QSV 430 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
6000
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
6000
0.35
27
12.8

#### PERFORMANCE DATA

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

0.5
784

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
3600	456	457	447	438	435	433	406	353	148
4000		512	516	487	486	479	436	393	165
4350		548	550	522	520	510	484	424	180
5000			613	608	603	594	559	452	206
5100			625	618	612	604	568	457	210
5800				685	677	670	629	492	240
6000					696	689	646	502	248

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
3600	14.5	12.2	10.2	8.3	7.8	7.5	7.0	6.7	6.9
4000		13.7	12.2	9.4	9.0	8.5	7.9	7.7	7.9
4350		15.5	13.3	10.9	10.3	9.6	9.0	8.5	8.6
5000			15.4	13.3	12.6	12.1	11.2	10.8	10.4
5100			15.8	13.6	12.9	12.4	11.5	11.1	10.7
5800				15.6	15.1	14.3	13.4	12.9	12.8
6000					15.7	14.8	13.9	13.4	13.4

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
3600	12.8	10.8	8.8	7.1	6.7	6.4	6.0	5.7	5.9
4000		12.2	10.8	8.1	7.7	7.3	6.7	6.6	6.7
4350		13.7	11.8	9.5	8.9	8.4	7.7	7.3	7.4
5000			13.6	11.7	11.1	10.6	9.8	9.5	9.1
5100			13.8	12.0	11.4	10.8	10.0	9.7	9.4
5800				13.7	13.2	12.5	11.6	11.3	11.2
6000					13.7	13.0	12.1	11.7	11.7

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)

0.20

ambience + 63

51 / 3

73 / 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))

Cooling air flow referred to air inlet grating vacuum pump (m³/s)

Connection inlet

1.266

0.934

1.083

1.40

1.04

1.34

510

515

565

1

6000

16

11

89.5

73

40

0.6

PN6 DN80 flange

Connection outlet

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)

