

# oil vapor removal system

## FEATURES

- designed to reduce oil vapor and odor from any compressed air system using activated carbon towers. Reduces residual oil content to lower than 0.003 mg/m<sup>3</sup> @ 95°F and 100 psig inlet pressure
- 6 models with rated flows from 40 to 1500 scfm
- when matched to inlet conditions, the unit delivers air quality to ISO 8573-1 (class 1 for oil)
- manufactured from high quality extruded aluminum, the modular design maintains effective operation for air quality for minimum of 12<sup>(1)</sup> months operation
- utilizes a unique adsorbent filled activated carbon cartridge complete with integral diffusers and built-in 1 micron dust filter as standard eliminating the need for external downstream filtration
- cartridges allow quick, clean and efficient maintenance
- unique design ensures a low differential pressure for highly efficient and economical operation
- can be installed in the compressor room or at the point of use to protect critical applications and personnel
- applications include food and beverage



### modular design

compact and lightweight with flexible outlet piping arrangement allowing ease of access and simple installation



### snowstorm filled

ensures optimum performance while eliminating attrition and blocked filters associated with twin tower designs



nano-purification solutions  
charlotte, north carolina  
united states

nano-purification solutions  
new bethlehem, pennsylvania  
united states

nano-purification solutions  
st. catharines, ontario  
canada

nano-purification solutions  
gateshead, tyne and wear  
united kingdom

nano-purification solutions  
krefeld, germany

tel: 704.897.2182  
fax: 704.897.2183  
email: support@n-psi.com  
web: www.n-psi.com

# SPECIFICATIONS

model	inlet & outlet		rated flow <sup>(2)</sup>		dimensions (inches)			approx. weight	service kit <sup>(3)</sup>	
	NPT	scfm	Nm <sup>3</sup> /h	A	B	C	lbs	part no.	qty	
NVR 0040	½"	40	68	34.1	10.4	8.3	28	NVR SK 040	1	
NVR 0185	1"	185	315	27.8	16.8	9.8	88	NVR SK 185	1	
NVR 0370	1"	370	630	34.6	16.8	9.8	110	NVR SK 370	1	
NVR 0750	2 ½"	750	1275	34.3	15.8	22.6	227	NVR SK 370	2	
NVR 1100	2 ½"	1100	1870	34.3	15.8	29.2	313	NVR SK 370	3	
NVR 1500	2 ½"	1500	2550	34.3	15.8	35.8	397	NVR SK 370	4	

## specifications

maximum working pressure	232 psig
recommended operating temperature range	36 to 95°F
maximum operating temperature	122°F
estimated cartridge life	12 months <sup>(1)</sup>

## inlet air quality requirements <sup>(4)</sup>

maximum particulate size	0.01 micron
maximum pressure dew point	-40°F
maximum oil content	0.05 mg/m <sup>3</sup>

## performance

maximum outlet air oil content (@95°F)	0.003 mg/m <sup>3</sup> (ppm)
--	-------------------------------

## pressure correction factors <sup>(5)</sup>

inlet air pressure (psig)	14	29	44	58	73	87	100-232
correction factor	0.25	0.37	0.50	0.62	0.75	0.87	1.00

## temperature correction factors <sup>(5)</sup>

inlet air temperature (°F)	<95	104	113	122
correction factor	1.00	0.98	0.96	0.95

## dew point correction factors <sup>(5)</sup>

inlet dew point (°F)	>+37	<+37
correction factor	0.25	1.00

(1) provided as an estimate only. Cartridges must be replaced as required to maintain adequate air quality in accordance with all applicable codes and regulations

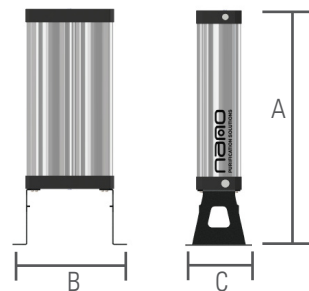
(2) at inlet conditions of 100 psig and 95°F and 95°F ambient temperature. For all other conditions contact support@n-psi.com for sizing assistance

(3) includes purification cartridges (including integral inlet diffusers and outlet particulate filters) and all o-rings

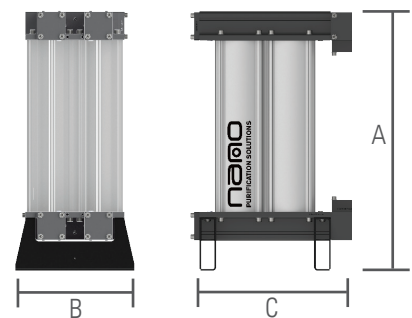
(4) if the air doesn't meet these conditions, contact support@n-psi.com to confirm the additional treatment required

(5) to be used as an approximate guide. All applications should be confirmed by nano

(6) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182



NVR 0040 to NVR 0370



NVR 0750 to NVR 1500