



domnick hunter

OIL-X EVOLUTION

High Efficiency Oil Vapour Removal (OVR) from Compressed Air

Modern Technology

Removing oil vapour from compressed air is necessary to meet the air quality standards required by many critical applications within industries such as pharmaceutical, medical, chemical, electronics and food and beverage. domnick hunter OVR systems offer many benefits when compared to traditional systems.

The most effective way to remove oil vapour from compressed air is to use an adsorbent bed of activated carbon. Unlike welded steel pressure vessels which are large and bulky, the domnick hunter OVR system utilises a high tensile aluminium extrusion, making its external dimensions smaller in comparison without compromising performance. OIL-X Evolution OVR is ideal for those areas where space is at an absolute premium.

The domnick hunter OVR system is very compact due to a technique known as snowstorm filling. This maximises the packing density of activated carbon to give a longer adsorption bed life and provide an even flow through the bed. Snowstorm filling removes the possibility of preferential flow and bypass which can lead to oil carry over.

The "snowstorm" filled cartridges also mean that servicing can be carried out quickly and effectively without the need to handle oil contaminated activated carbon granules.

Benefits

- Delivered air quality to international standards
- Ideal for critical applications
- Modular system can be multi-banked to give higher capacities
- Corrosion protected
- Easy to fit, cartridge system for quick, clean and simple servicing
- Compact and lightweight
- Can be installed virtually anywhere
- 6000 hour service life



<p>ISO 9001:2000</p>   <p>Q 05240 003</p>	<p>BSI QUALITY ASSURANCE</p> 	<p>ISO 14001</p>  <p>001</p>	<p>INTERNATIONAL APPROVALS</p>    	 <p>RCAS SINCE 1970</p>  <p>COMRESSED AIR AND GAS INSTITUTE</p>	<p>pneurop</p>  <p>Druckluft effizient</p>
--	--	---	---	---	---

Product Selection & Technical Data

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures apply the correction factors shown.

Model	Pipe Size	Flow rates				Max Operating Pressure		Max Recommended Operating Temperature		Min Recommended Operating Temperature		Replacement Element Kit	No.
		L/S	m³/min	m³/hr	cfm	bar g	psi g	°C	°F	°C	°F		
OVR100E□XX	1"	80	4.8	288	170	16	232	50°C	122°F	1.5°C	35°F	100OVR	1
OVR150H□XX	2"	160	9.6	576	339	16	232	50°C	122°F	1.5°C	35°F	100OVR	2
OVR200H□XX	2"	330	19.8	1188	699	16	232	50°C	122°F	1.5°C	35°F	100OVR	4
OVR250J□XX	3"	620	37.2	2232	1314	16	232	50°C	122°F	1.5°C	35°F	100OVR	6
2 x OVR250J	3"	1240	74.5	4465	2628								
3 x OVR250J	3"	1860	111.8	6696	3941								
4 x OVR250J	3"	2480	149.1	8928	5255								
5 x OVR250J	3"	3100	186.4	11160	6569								



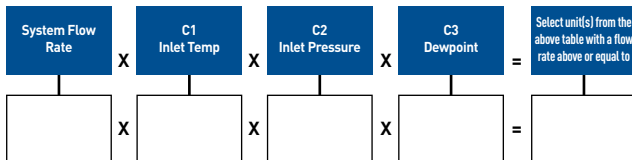
GRADE OVR Oil Vapour & Odour Removal

(Precede Grade OVR with Grade AA filter)

Maximum remaining oil vapour content : 0.003 mg/m³ at 21°C / 0.003 ppm(w) at 70°F.

Cartridge Life : Approx. 6000 hours (when corrected to match system conditions)

Filter Selection



C1 Inlet Air Temperature		Correction Factor
°C	°F	
20	68	1
25	77	1.53
30	86	1.55
35	95	1.58
40	104	1.60
45	113	1.63
50	122	1.65

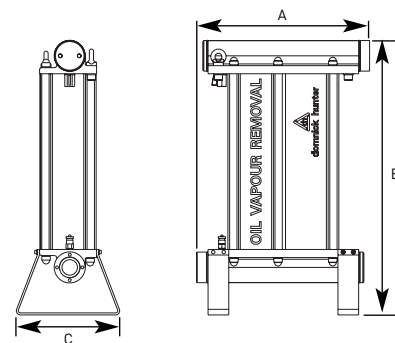
C2 Inlet Air Pressure		Correction Factor
bar g	psi g	
3	43.5	2.00
4	58	1.60
5	72	1.33
6	87	1.14
7	102	1.00
8	116	1.00
9	130	1.00
10	145	1.00
11	160	1.00
12	174	1.00
13	189	1.00
14	203	1.00
15	218	1.00
16	232	1.00

C3 Dewpoint	°C	°F	Correction Factor
Dry	-70 to +3	-100 to +38	1.00
Wet	+3 and above	+38 and above	2.00

It is assumed inlet oil vapour concentration does not exceed 0.05mg/m³ at 21°C (70°F). For applications with higher oil vapour concentrations, please contact domnick hunter for accurate sizing.

Weights and Dimensions

Filter Grade	Pipe Size	A		B		C		Weight	
		mm	ins	mm	ins	mm	ins	kg	lbs
OVR100E	1"	352	13.8	670	26.3	250	9.8	25	55
OVR150H	2"	504	19.9	797	31.3	300	11.8	42	93
OVR200H	2"	829	32.6	797	31.3	300	11.8	74	163
OVR250J	3"	1194	47	816	32.1	300	11.8	107	235



dh, domnick hunter, OIL-X and PNEUDRI are registered trademarks of domnick hunter limited.

domnick hunter limited has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Industrial Division Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the Company's standard conditions of sale.



domnick hunter limited
 Dukesway, Team Valley Trading Estate,
 Gateshead, Tyne and Wear,
 England NE11 0PZ
 Tel: +44 (0)191 402 9000
 Telefax: +44 (0)191 482 6296