

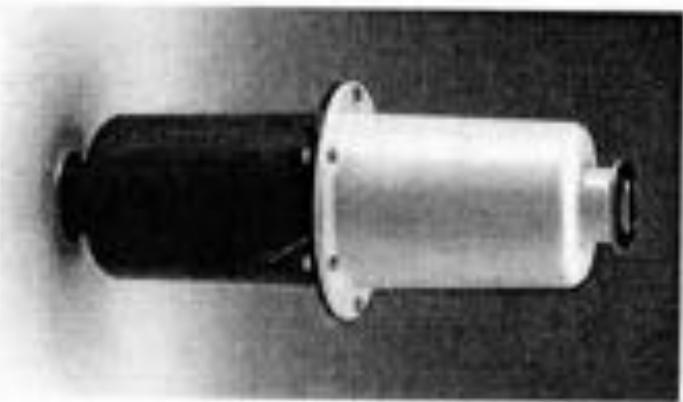
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OME 40 S

Séparateur de brouillard standard

Standard oil mist eliminator

Standard Ölnebelabscheider



II. STANDARD OIL MIST ELIMINATOR

II.1. DESCRIPTION

This oil mist eliminator is manufactured out of the exhaust of the 1010/1010h/2020/2020h standard rotary vane pump and represents an alternative and inexpensive option instead of the exhaust of the oil-sealed vacuum pump.

When the eliminator is mounted vertically, the condensed oil is recovered by flowing back through the cartridge into the oil tank. If the oil level pattern is less than 0.75 "from the bottom of the cartridge, the eliminator has a safety valve set to 375 bar relative pressure which prevents overpressure in the pump oil tank when the cartridge is replaced. During filter wash or pump diagnosis, opening of pump oil reservoir to check the valve to the filter cartridge.

II.2. CHARACTERISTICS

Part number	104887 (standard OME 40S)
Weight	4.400 lbs
Connection	DN40 ISO-4P
Material	Body: aluminum cartridge: glass microfiber and epoxy resin
Pressure	$1 \times 10^7 \text{ Pa} \text{ or } 10^3 \text{ bar}$ ($1.4 \times 10^4 \text{ atm} \text{ or } 10^3 \text{ psi}$)
Mounting on pump body marked with "Pump J" label	
Dimensions	see Figure a)

ITEMS WITH	SIZE	REFERENCE
1 coupling ring DN40 ISO-4P	12	944194
1 quick connect sleeve DN40 ISO-4P	13	944192

II.3. ASSEMBLY (Figure b))

The separator is installed on the rotary vane pump exhaust flange with the side included "Pump J" label. The other side can be connected to a gas exhaust line.

- On the pump, remove protective end elastomer valve from the exhaust port of the vane pump.
- On the oil mist eliminator, remove protection 12 and 13.
- Connect oil mist eliminator to pump with connecting accessories supplied (see above) or ordered separately (see diagram b).
- Pour the pump.

In operation, oil and vapors are collected by the filter until a stage, in which case, valve 2 bypasses the filter if the exhaust pressure is higher than 31% from relative pressure.

Manuel de l'utilisateur

User's manual

Technische Beschreibung

adiken

by Adiken Vacuum Technology

II.4. MAINTENANCE

HAZARD LEVEL Each time the system is disassembled, take all necessary precautions to ensure safety and protection of personnel against toxicity, corrosion, and radioactivity of residues. Depending on the nature of the residue, use personal protective equipment.

- ⚠**
- Purge the system with dry nitrogen before working on it.
 - Wear gloves, protective suit, if necessary, or respirator mask.
 - Thorough ventilation of the room and disinfection under a fume hood.
 - Recovery of residue in appropriate containers. If necessary, have them destroyed by a competent organization.

a) Cartridge maintenance:

- If residue burns or dissipates, or loss of oxygen occurs at eliminate outlet, the cartridge is saturated.
- The time taken to reach saturation point depends on the number of purifying operations, their frequency, the volume of treated gas, and the kind of the oil used. When the cartridge is saturated, replace as follows:

b) Disassembly (Figure 4.1):

- Detach the eliminator from the pump and disassemble on a workbench.

- Unscrew the valve **3** and **10** while at the same time manually pressing each end of the eliminator parallel handle release of the spring **6**.

- Remove successively and in the following order, the upper body **11**, O-ring **2**, the spring **6** and valve **3** equipped with its ring **8**, the cartridge **2** and the flat ring **3** in the base of the body **1**.

c) Cleaning:

- ⚠** Never clean the filter cartridge; always install a new one.

After use in aerosol cells, clean the components with a neutral product based solvent such as **ACONITOL[®]**, **CARBOLIUM[®]**, **PHEUMATEX[®]**, **HUMETIC[®]**.

Proceed as follows:

- Clean when cold or hot (max. 45°C) by dipping or using a cloth.
- Vacuum dry in a conditioned oven.
- Eliminate parts **2**, **4** and **7** must always be replaced by new parts.

d) Reassembly:

- Insert the flat ring **3** in the base of the body **1**.
- Insert the cartridge **2** so that it rests on the flat ring **3** in the body **1**.
- Assemble O-ring **4** on valve valve **3** and insert the valve in the cartridge, with flat end resting on the cartridge.
- Position the spring **6** on the valve **3** and O-ring **2**.
- Position the upper body **11** on lower body **1** using the mounting screws **8**, **9** and **10**.
- Connect the eliminator to the pump exhaust port (see paragraph II.3.1).

II.5. APPLICATIONS NOT RECOMMENDED

Use of an oil mist eliminator is not recommended in the following areas : drying, heating, freezing, condensation points, impregnation with pharmaceuticals, resin, and dissolving materials.

- ⚠** Filter cartridges are flammable ; do not use eliminating when purifying flammable products such as oxygen or ethane.

The standard oil mist eliminator model may not be used for purifying corrosive products or for microelectronics and chemical applications.

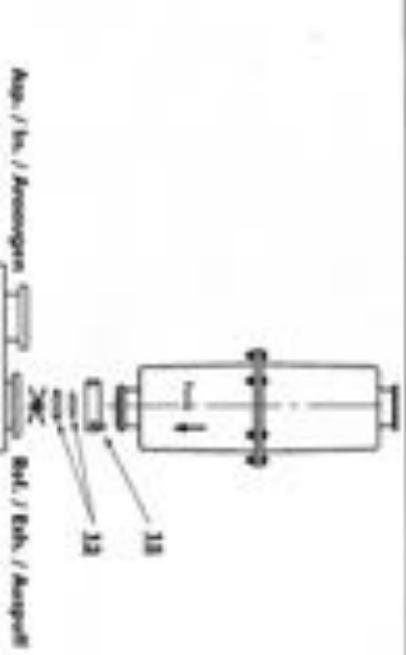
II.6. SPARE PARTS

Items which must be replaced each time the unit is cleaned :

NUMBER	HOLDER	PART NAME	REFERENCE
1	-	O-ring	000443
2	-	Filter cartridge	000444
3	-	Flat ring	000121
4	-	O-ring	000248
7	-	O-ring	000248

FIGURES / ABBILDUNGEN

Figure / Abbildung- b)



DIMENSIONS / MASSENWERTEN / ABMESSUNGEN

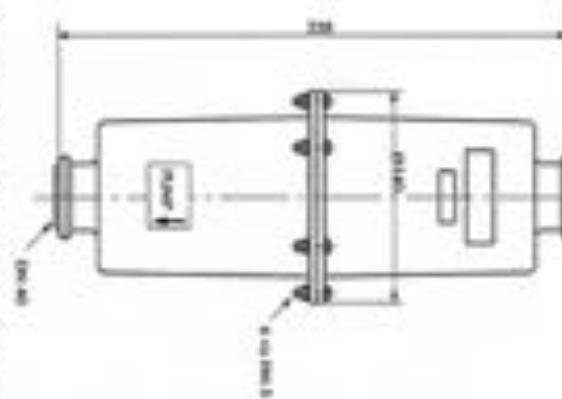
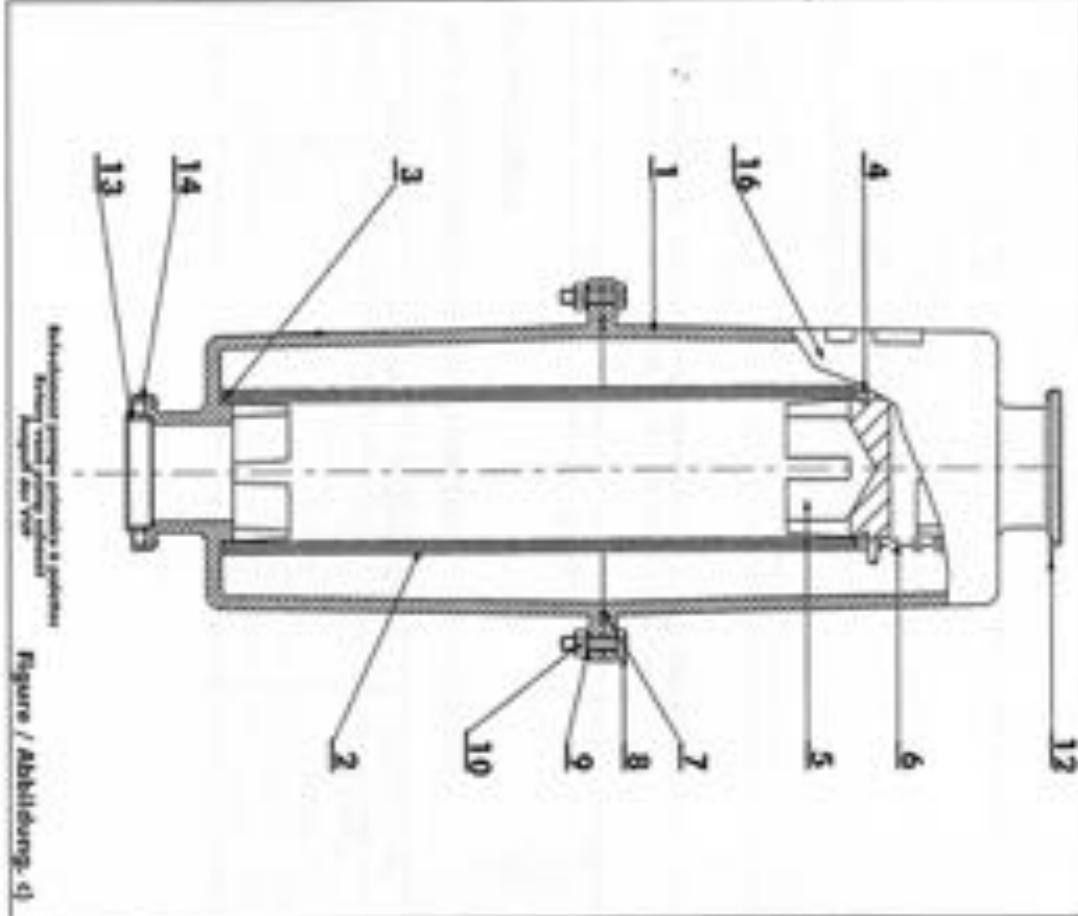


Figure / Abbildung- c)



NUMBERCRACKER GAME 405 / ONE OF THE NUMBERCRACKER / NUMBERCRACKER GAME 405

ACCESSOIRES DE RACCORDEMENT ET ELEMENTS DE CANAUX	CONNECTING ACCESSORIES AND VACUUM FITTINGS	ANSCHLUSSPLÄNSCHE UND VERBINDUNGSELEMENTS	RACCORDEMENT DN40 ISO-KF Ref. DN40 ISO-KF CONNECTION P/N DN40 ISO-KF FLANSCHE Best.Nr.	
			Pompes standards Standard pump Standard-Pumpen	Pompes chimiques Chemical pumps Chemie-Pumpen
Anneaux de centrage - inox/Ferbuncon - inox/Viton - macrovac/Ferbuncon	Centering rings - stainless steel/Buna - stainless steel/Viton - macrovac/Buna	Zentrierringe - Edelstahl/Perbuncon - Edelstahl/Viton - PVC / Perbuncon	..... 068194 068601	..... 068230
Collier de serrage	Quick connect clamp	Spannringe	..... 063367	..... 063367
Tuyau plastique armé - longueur 1 m	Reinforced plastic hoses - 1 m length	Plastikschlaubhüse - Länge 1 m	..... 303390	
Tuyaux flexibles inox - longueur 0,5 m - longueur 1 m	Flexible stainless steel hoses - 0,5 m length - 1 m length	Edelstahl-Wellschlaubhüse - Länge 0,5 m - Länge 1 m		..... 068274 068275
Embouts lisse - Macrovac - Inox	Long nipples - Macrovac - stainless steel	Anschweißflansche - PVC - Edelstahl	..... 068592	..... 068217
Coudes égaux - Macrovac - Inox	Symmetrical elbows - Macrovac - stainless steel	Winkelstücke 90° - PVC - Edelstahl	..... 068587	..... 303028
Tés égaux - Macrovac - Inox	Symmetrical tees - Macrovac - stainless steel	T-Stücke - PVC - Edelstahl	..... 068588	..... 068564
Obturateurs - Macrovac - Inox	Blank-off Range - Macrovac - stainless steel	Blindflansche - PVC - Edelstahl	..... 068595	..... 068197