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A441-01-880
Issue F

Instruction Manual

IT20K, IT100, IT300 and IT800 Inlet Traps

Description	*Item Number*
ITO20K Inlet Catchpot	A441-10-000
ITC20K Inlet Chemical Trap	A444-10-000
ITD20K Inlet Desiccant Trap	A445-10-000
ITF20K Inlet Dust Filter	A442-15-000
ITO100 Inlet Catchpot	A441-02-000
ITC100 Inlet Chemical Trap	A444-02-000
ITF100 Inlet Dust Filter	A442-02-000
ITM100 High-Capacity Inlet Dust Filter	A443-02-000
ITO300 Inlet Catchpot	A441-03-000
ITC300 Inlet Chemical Trap	A444-03-000
ITF300 Inlet Dust Filter	A442-03-000
ITM300 High-Capacity Inlet Dust Filter	A443-03-000
ITO800 Inlet Catchpot	A441-04-000
ITC800 Inlet Chemical Trap	A444-04-000
ITF800 Inlet Dust Filter	A442-04-000
ITM800 High-Capacity Inlet Dust Filter	A443-04-000

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1 INTRODUCTION

1.1 Scope and Definitions

This manual provides installation, operation and maintenance instructions for the following BOC Edwards accessories:

ITO20K, ITO100, ITO300 and ITO800 Inlet Catchpots
ITC20K, ITC100, ITC300 and ITC800 Inlet Chemical Traps
ITD20K Inlet Desiccant Trap
ITF20K, ITF100, ITF300 and ITF800 Inlet Dust Filters
ITM100, ITM300 and ITM800 High-Capacity Inlet Dust Filters.

You must use the accessory as specified in this manual

Read this manual before you install and operate the accessory. Important safety information is highlighted as WARNING and CAUTION instructions; you must obey these instructions. The use of WARNINGS and CAUTIONS is defined below.



WARNING

Warnings are given where failure to observe the instructions could result in injury or death to people.

CAUTION

Cautions are given where failure to observe the instruction could result in damage to the equipment, associated equipment or process.



Warning - refer to accompanying documentation.

The units used throughout this manual conform to the SI international system of units of measurement.

1.2 Product Description

1.2.1 General

Inlet traps, dust filters and catchpots have an aluminium body with a removable metal top cover/or sight-glass. The inlet-port is at a tangent to the body to achieve a degree of centrifugal separation of solid and liquid particles.

All inlet traps, catchpots and filters of the same size have the same body. The traps and filters have containers and filter elements which fit inside the body as shown in Figures 1 and 2.

To provide maximum protection to the pumping system they should be installed as close to the vacuum pumping system as is possible.

1.2.2 ITO Inlet Catchpot

The ITO Inlet Catchpot is used on vacuum processes where large quantities of vapour are produced. The catchpot traps liquid that would otherwise condense in the pipelines and drain towards the pump. The catchpot is also suitable for use on vacuum processes where froth or spray can go into the pump.

Refer to Figure 1 for the ITO20K catchpot or to Figure 2 for the ITO100, 300 and 800 catchpots for item numbers in brackets. The mixture of gas and liquid droplets enters

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the inlet of the catchpot (22). The liquid collects in the base of the body (14) and the gas passes through the outlet (16) into the pump.

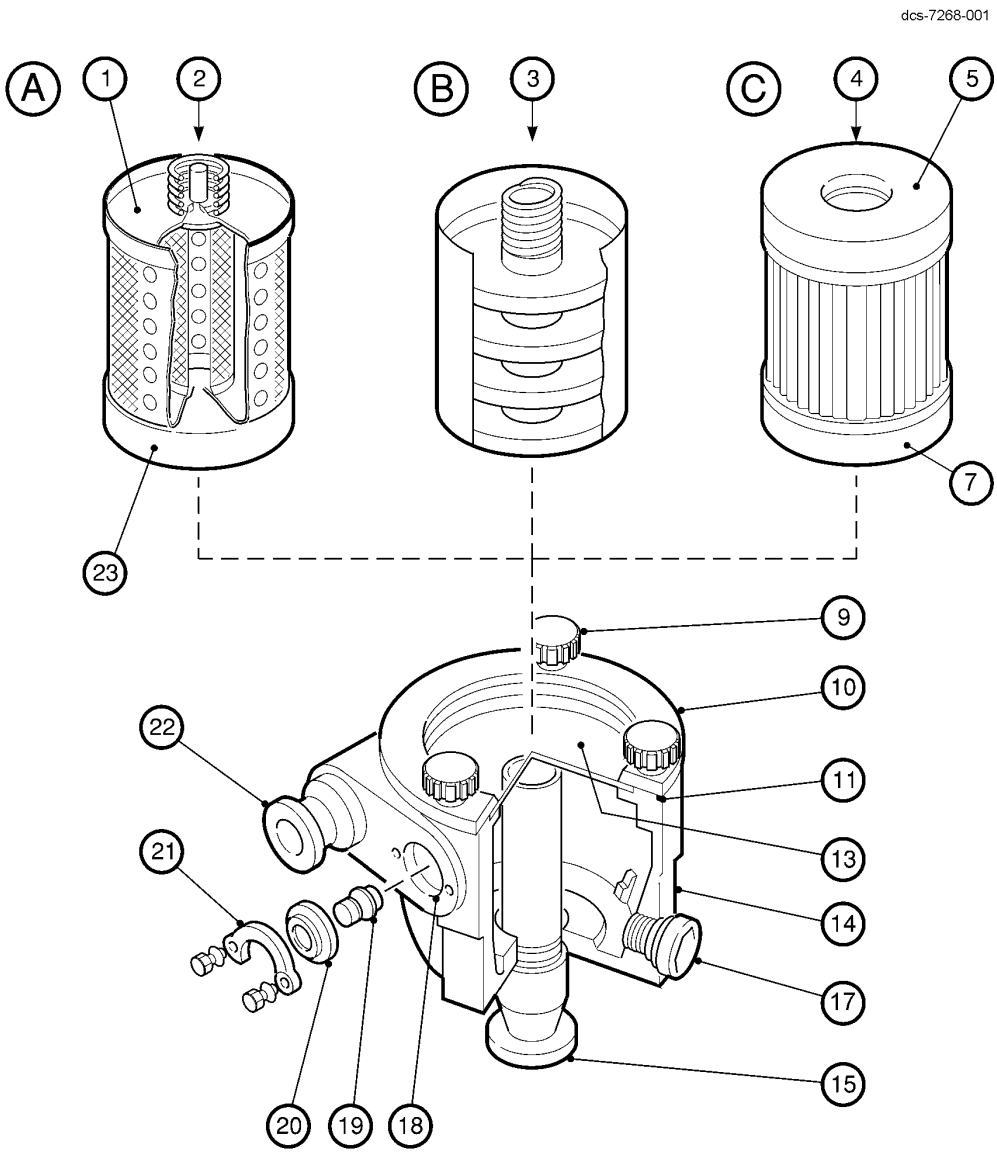
You can see the level of the trapped liquid through the sight-glass (13). You can drain the trapped liquid from the catchpot through the drain-plug (15).

1.2.3 ITC Inlet Chemical Trap

The ITC Inlet Chemical Trap protects the pump against aggressive or heavy, lacquer-forming vapours which may damage the pump or contaminate the pump oil.

Refer to Figure 1 for the ITC20K chemical trap or to Figure 2 for the ITC100, 300 and 800 chemical traps for item numbers in brackets. The trap operates in the same way as the catchpot described in Section 1.2.2 but, in addition, the vapour passes through the fine mesh stainless steel basket assembly (2) which holds the trapping material. Refer to Section 7 for details of the choice of trapping materials available from BOC Edwards as spares.

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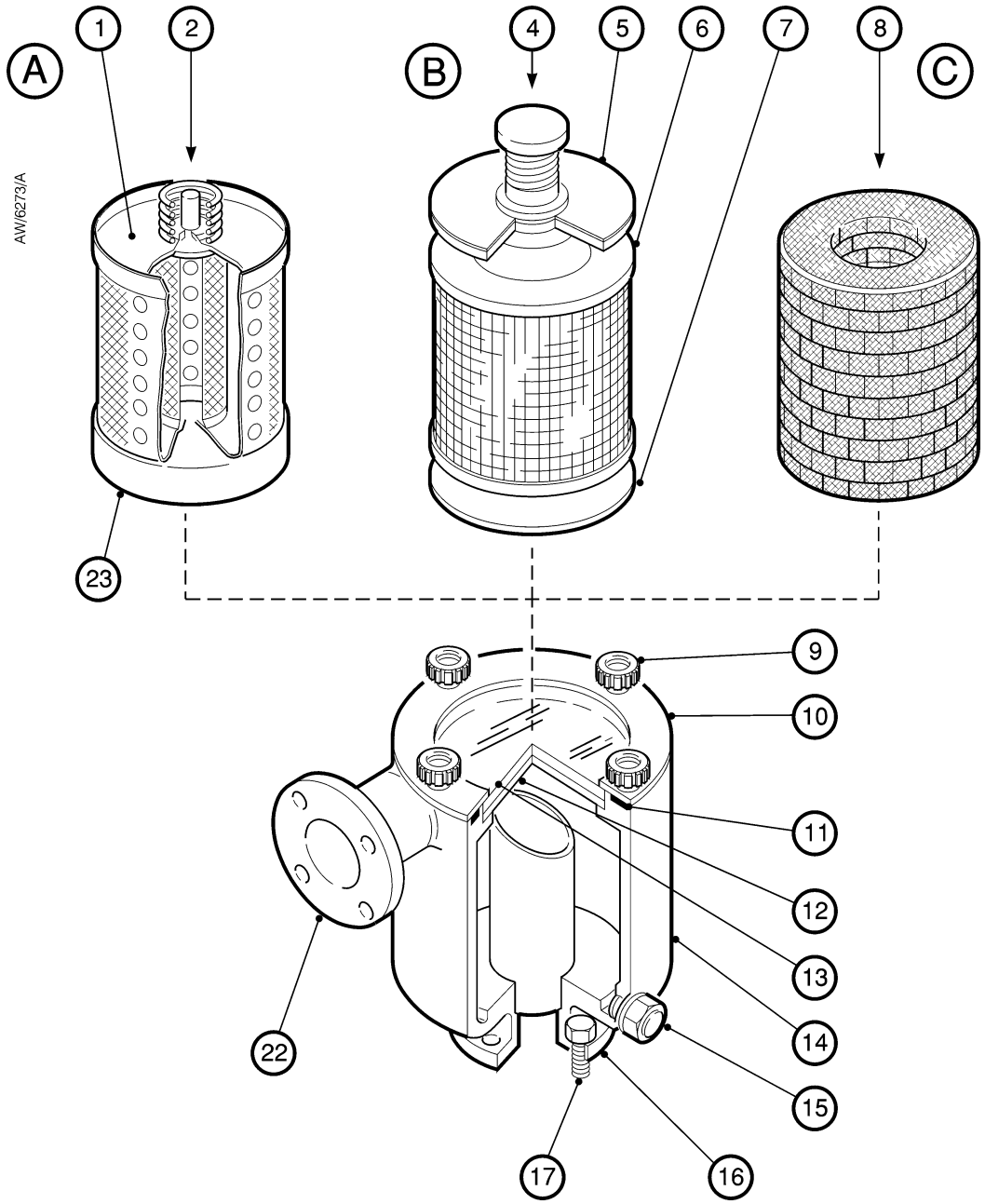


A Inlet Chemical Trap
B Inlet Desiccant Trap
C Inlet Dust Filter

1. Inner Cover
2. Chemical Trap Basket Assembly
3. Desiccant Trap Tray Assembly
4. Dust Filter Element
5. Not Used
6. Top Gasket
7. Dust Filter Bottom Gasket
8. Not Used
9. Handwheel
10. Bezel
11. Gasket
12. Not Used
13. Sight-Glass
14. Trap-body
15. Outlet-Port
16. Not Used
17. Drain-Plug
18. Auxiliary Port
19. O' Ring and Blanking Plug
20. Compression Sleeve
21. SC10 'C' Clamp
22. Inlet-Port
23. Chemical Trap Bottom Gasket

Figure 1 – IT20K Inlet Trap

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A Inlet Chemical Trap
B Inlet Desiccant Trap
C Inlet Dust Filter

1. Inner Cover
2. Chemical Trap Basket Assembly
3. Not Used
4. Dust Filter Element
5. Dust Filter Locating Spacer
6. Top Gasket
7. Dust Filter Bottom Gasket
8. High-Capacity Dust Filter Element
9. Handwheel
10. Bezel
11. Gasket
12. Sight-Glass Cover
13. Sight-Glass
14. Trap-Body
15. Drain-Plug
16. Outlet-Port
17. Outlet-Flange Fixing Screws
18. Not Used
19. Not Used
20. Not Used
21. Not Used
22. Inlet-Port
23. Chemical Trap Bottom Gasket

Figure 2 – IT100, IT300 and IT800 Inlet Traps

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1.2.4 ITD Inlet Desiccant Trap

The ITD Inlet Desiccant Trap is used to trap limited quantities of water vapour to a low vapour pressure when the pump is operated at high pumping speeds. Phosphorous pentoxide (not supplied) is used as the desiccant.

Refer to Figure 1 for item numbers in brackets. The trap operates in the same way as the catchpot described in Section 1.2.2. In addition, the vapour passes through the stainless steel tray assembly (3), which holds the desiccant. You can see the condition of the desiccant through the sight-glass (13).

1.2.5 ITF Inlet Dust Filter

The ITF Inlet Dust Filter prevents the entry of dust particles into the pump.

Refer to Figure 1 for the ITF20K dust filter or to Figure 2 for the ITF100, 300 and 800 dust filters for item numbers in brackets. The inlet dust filter operates in a similar way to the catchpot described in Section 1.2.2. In addition, the pumped gas passes through the dust filter element (4).

The filter material is a man-made fibre. You can see the condition of the filter element through the sight-glass (13).

1.2.6 ITM High-Capacity Inlet Dust Filter

The ITM High-capacity Inlet Dust Filter is used for applications that require fast pumpdown with high loads of dust and grit, which would rapidly clog the equivalent ITF Inlet Dust Filter element.

Refer to Figure 2 for item numbers in brackets. The dust filter operates in a similar way to the catchpot described in Section 1.2.2. In addition, the pumped gas passes through the high-capacity dust filter element (8).

The filter material is stainless steel mesh which can be made wet with oil for greater dust adhesion in those applications were the oil sealed vacuum pumps that can tolerate oil carryover are used e.g. oil sealed rotary vane or piston type pumps. The filter should not be oil wetted when using oil free drypumps.

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2 TECHNICAL DATA

2.1 ITO Inlet Catchpot

	ITO20K	**ITO100**	**ITO300**	**ITO800**
Dimensions	Figure 3	Figure 4	Figure 4	Figure 4
Flange size	*NW25*	*ISO40*	*ISO63*	*ISO100*
(Inlet and outlet)				
Mass (kg)	*3.2*	*6.8*	*8.0*	*19.5*
Capacity (litres)	1.84	5.47	7.87	9.50

2.2 ITC Inlet Chemical Trap

	ITC20K	**ITC100**	**ITC300**	**ITC800**
Dimensions	Figure 3	Figure 4	Figure 4	Figure 4
Flange size	NW25	ISO40	ISO63	ISO100
(Inlet and outlet)				
Mass				
Trap-body (kg)	3.5	7.5	9.0	21.0
Charge (kg)*	0.4	0.75	1.1	3.3
Charge material	Activated charcoal or activated alumina			

* Mass of charge is given for activated charcoal

2.3 ITD20K Inlet Desiccant Trap

Dimensions	See Figure 3
Flange size (inlet and outlet)	NW25
Mass	
Trap-body (kg)	3.6
Desiccant (kg)	0.12
Desiccant material (not supplied)	Phosphorous pentoxide

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2.4 ITF Inlet Dust Filter

	ITF20K	**ITF100**	**ITF300**	**ITF800**
Dimensions	Figure 3	Figure 4	Figure4	Figure 4
Flange size (inlet and outlet)	NW25	ISO40	ISO63	ISO100
Mass				
Trap-body (kg)	3.4	7.0	8.3	20.2
Filter element (kg)	0.3	0.4	0.5	1.0
Filter material		Man-made fibre		
Filter efficiency (Tested to BS2831, dust number 2)		better than 96%		
Reduction in pumping speed				
At 1 mbar		10%		
At 1 x 10 -1 mbar		25%		

2.5 ITM High-Capacity Inlet Dust Filter

	ITM100	ITM300	ITM800
Dimensions	Figure 4	Figure 4	Figure 4
Flange size (inlet and outlet)	ISO40	ISO63	ISO100
Mass			
Trap-body (kg)	7.2	8.7	21.6
Filter element (kg)	0.5	1.0	2.5
Filter material	Stainless steel mesh		
Filter efficiency			
Particle size for BS2831 dust #2			
Particle size,	Fused Aluminium Oxide Powder		
Spectrum less than 13 microns	99.5 %		
Less than 7.5 microns	88.0+/- 8%		
Less than 5.0 microns	46.0+/-6%		
Less than 3.5 microns	10.0+/-3%		
Less than 2.5 microns	Less than 2.0%		

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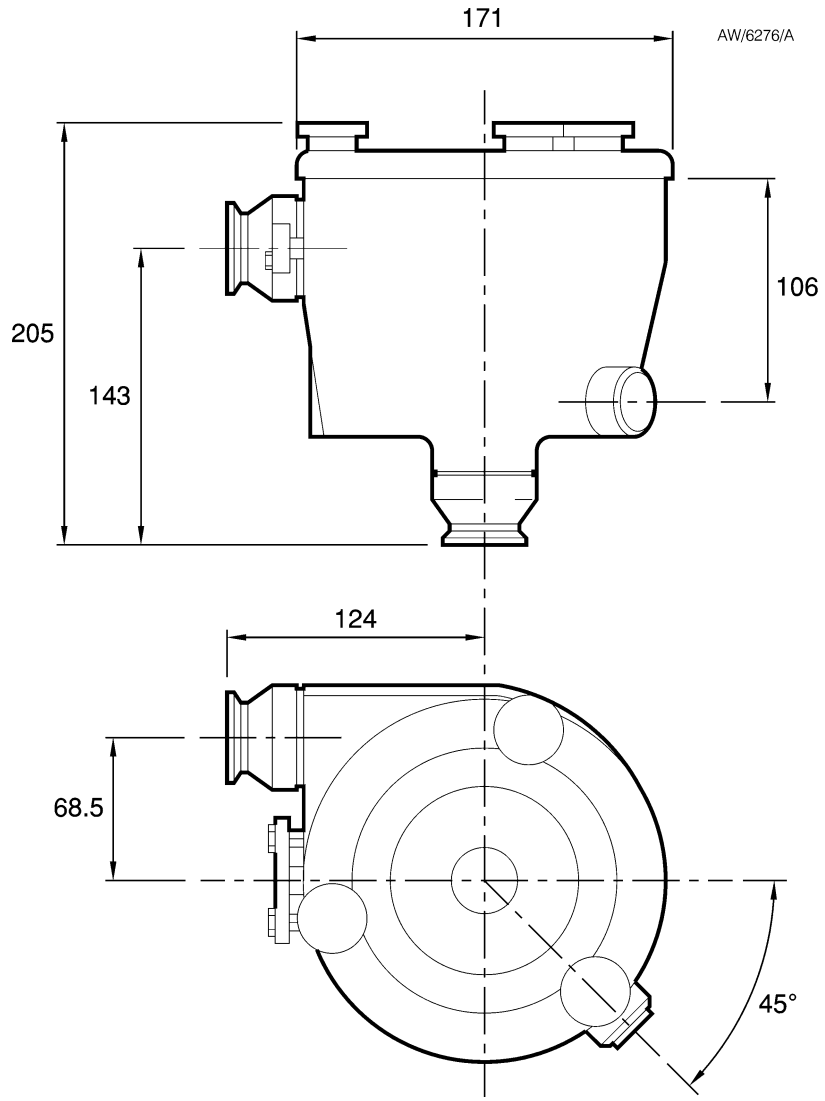


Figure 3 - Dimensions of IT20K inlet trap (mm)

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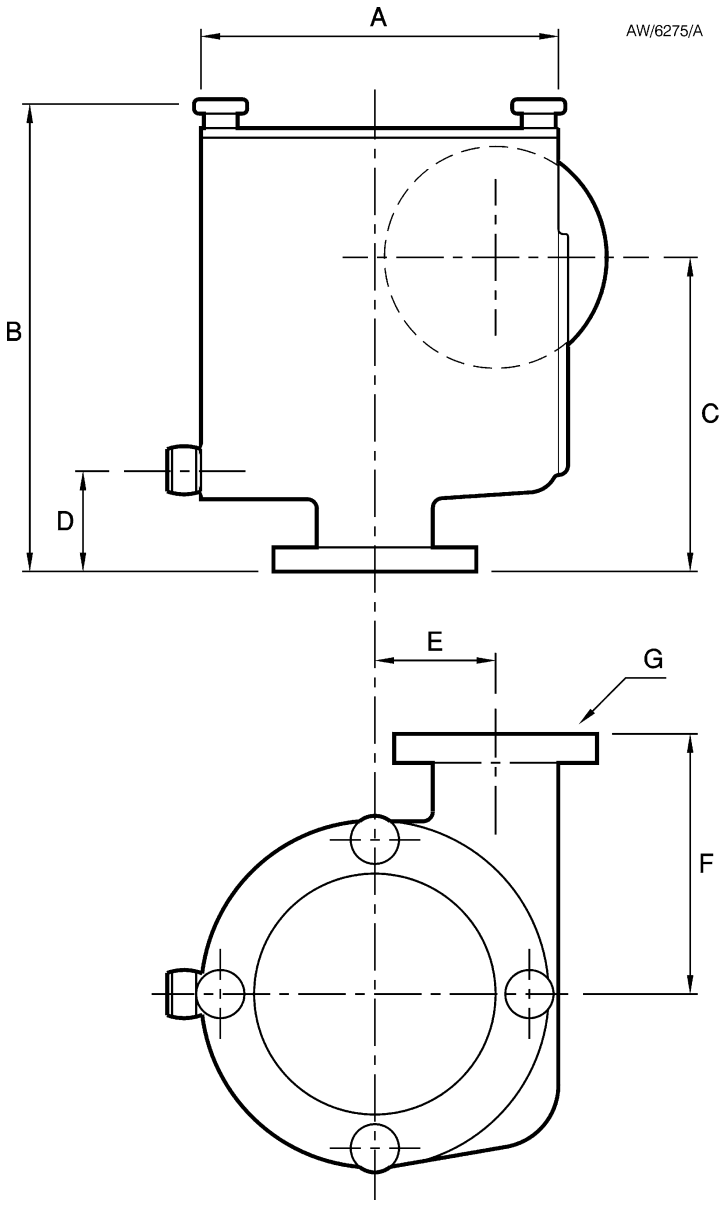


Figure key	A	B	C	D	E	F	G
IT100	227	251	182	62	92	145	ISO40
IT300	227	308	210	62	80	165	ISO63
IT800	285	456	315	81	97	200	ISO100

Figure 4 - Dimensions of IT100, IT300 and IT800 Inlet traps (mm)

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3 INSTALLATION



WARNING

Obey the safety instructions given below and take note of appropriate precautions. If you do not, you may cause injury to people and damage to equipment.

Use appropriate precautions when you come into contact with phosphorous pentoxide desiccant or phosphoric acid generated by the adsorption of moisture into phosphorous pentoxide.

Phosphorous pentoxide attacks aluminium; prevent contact with the body of the trap.

Do not expose activated charcoal or other sorbent material to atmosphere for longer than is necessary; keep storage containers sealed.

Evacuate the trap as quickly as possible after it is prepared for use.

3.1 Unpack and Inspect

Remove all packing materials and inspect your accessory.

If your accessory is damaged, notify your supplier and the carrier in writing within three days; state the Item Number of the accessory together with your order number and your supplier's invoice number. Do not use the accessory if it is damaged.

Check that your package contains the items listed in Table 1:

Qty	Description	Check (✓)
1	The accessory item	❑
1	Fitting Pack	❑

Table 1 - Checklist of Components

If any of the items is missing, notify your supplier in writing within three days.

If the accessory is not to be used immediately, return it to its protective packaging. Store the accessory in suitable conditions; refer to Section 6.1.

3.2 Install the Inlet Dust Filter

You must install the inlet trap, catchpot or filter vertically. Refer to Figure 1 for items in brackets.

1. Clean the area around the pump-inlet.
2. Use the NW25 'O' ring assembly supplied with the pump and a clamp supplied in the fitting pack to connect the outlet (16) to your pump.
3. Use the NW25 'O' ring assembly and clamp supplied in the fitting pack to connect the inlet (22) to your vacuum system.
4. If necessary, you can mount a gauge or other small accessory to the auxiliary port (18). Use suitable SC10 or NW10 fittings (not supplied).

An ITF Inlet Dust Filter is supplied with the filter element already installed. Refer to Section 3.4 if you install an ITC Inlet Chemical Trap. Refer to Section 3.5 if you install an ITD Inlet Desiccant Trap.

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3.3 Install the IT100, IT300 or IT800 Inlet Trap, Catchpot or Filter

You must install the inlet trap, catchpot or filter vertically. Refer to Figure 2 for items in brackets.

1. Clean the area around the pump-inlet.

2. Use the 'O' ring assembly or Co-Seal supplied with pump and the screws and washers supplied in the fitting pack to connect the outlet (16) to your pump.

3. Use the 'O' ring assembly or Co-Seal and the screws and washers supplied in the fitting pack to connect the inlet (22) to your vacuum system.

An ITF Inlet Dust Filter or an ITM High-capacity Dust Filter is supplied with the filter element already installed. Refer to Section 3.4 if you install an ITC Inlet Chemical Trap.

3.4 Fill the ITC Inlet Chemical Trap

Refer to Figure 1 for the ITC20K chemical trap or to Figure 2 for the ITC100, 300 and 800 chemical traps for item numbers in brackets.

1. Undo the handwheels (9) and remove the bezel (10), the gasket (11), the sight-glass cover (12, if fitted) and the sight-glass (13). If necessary, insert a small blade screwdriver into the slot in the rim of the trap-body to remove the sight-glass.

2. Lift out the basket assembly (2), undo the knurled nut that secures the inner cover (1) and remove the inner cover.

3. Fill the basket with the trap material. Shake the basket to compact the trap material and fill it to approximately 6 mm below the top of the stud that holds the inner cover. Refit the inner cover.

4. Place the basket in the trap-body. Refit the sight-glass assembly and secure it with the handwheels.

3.5 Fill the ITD Inlet Desiccant Trap

Refer to Figure 1 for item numbers in brackets.

1. Undo the handwheels (9) and remove the bezel (10), the gasket (11) and the sight-glass (13). If necessary, insert a small blade screwdriver into the slot in the rim of the trap-body to remove the sight-glass.

2. Lift out the desiccant tray assembly (3).

3. Fill the trays with a thin layer of desiccant (approximately one quarter full) and leave the surface loosely packed to expose a large surface area.

4. Place the tray assembly in the trap-body. Refit the sight-glass assembly and secure it with the handwheels.

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4 OPERATION

4.1 Operating Notes

Check the inlet dust filter regularly and clean or replace the filter elements as described in Section 5.

If your vacuum system will be left for long periods at atmospheric pressure, fit isolation-valves at the inlet and outlet of the filter. The inlet dust filter can then be stored under vacuum and the inlet dust filter will remain clean and dry for a longer period.

Do not open the drain port of an inlet trap when it is under vacuum. If you do, material trapped in the inlet trap can flow back into your process chamber.

5 MAINTENANCE



WARNING

Take all the necessary precautions if toxic or dangerous substances have been pumped through the inlet trap. Wear protective clothing when you come into contact with contaminated filters and filter elements.



WARNING

Isolate the pump from the electrical supply before you start maintenance.

Note: Ensure that the inlet trap is at atmospheric pressure before you start maintenance. Do not use the drain port to vent the inlet trap.

Inspect the inlet trap as part of maintenance. If a sight-glass is fitted and this is scratched or chipped, you must replace the sight-glass before you use the inlet trap again.

5.1 Application of ITM Type Dust Filters in the Metallurgy Industry



WARNING

ITF type filters are not suitable for applications that would trap materials likely to react on exposure to air.

The use of filters to capture fine dust and larger particles could result in the trapping of non-oxidised or partially oxidised metallic powders in the filter element. Some of these materials may react when exposed to air and an ignition source.

For all applications where metallic dust particles are present and where the ITM filters are installed, it is recommended that the filter elements be periodically inspected and cleaned. The frequency of this inspection needs to be determined as it is process dependent. Initially this inspection should be on a weekly basis until an acceptable interval can be established. This is necessary to ensure the quantity of metallic dust present is controlled as this will minimise the potential for heat damage should ignition and combustion of the dust occur.



WARNING

When venting ITM Filters it should be assumed that they contain reactive materials and care should be taken when removing or handling the filter element

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To remove the filter element, first isolate the vacuum pumps from the process chamber. It is preferable that the isolation valve be placed close to the inlet of the ITM filter.

Switch off the vacuum pump and vent the vacuum pump and ITM filter to atmosphere. Leave the filter at atmospheric pressure for 5-10 minutes to allow any potential reaction to start. If the filter body or top plate becomes heated, then restart the vacuum pumps but do not open the pump isolation valve installed at the ITM filter inlet. This will remove oxygen from the reaction.

If there is no sign of a reaction occurring, remove the top plate from the ITM filter to expose the element, check again that there is no evidence of reaction before proceeding to remove the filter. In the event of a reaction, replace the top plate and switch on the vacuum pumps.

The filter element should be removed to a well-ventilated area away from naked flames or hot surfaces etc and should be immersed in clean water. It is possible for hydrogen to be released during the water wash procedure.

Dismantle and inspect the inlet dust filter
Refer to Figure 2 for items in brackets.

1. Undo the handwheels (9); remove the bezel (10), the gasket (11) and the sight-glass (13).
2. Lift out the high-capacity filter element (8).
3. If the element is in good condition, wash it in a suitable cleaning solution. Replace the element if it is damaged or heavily contaminated.
4. If necessary, remove dry dust from the inside of the trap-body with a vacuum cleaner and then wipe the inside with a clean, lint-free cloth.
5. If necessary, immerse the clean high-capacity filter element in a bath of vacuum pump oil and allow it to drain over the bath for several hours but not for dry pumps.
6. Place the high-capacity filter element in the trap-body.
7. Inspect the sight-glass gasket (11); replace the gasket if it is damaged. Refit the sight-glass assembly and secure it with the handwheels.

Measure the filter element weight and compare this to the guide values for clean filters to ensure effective removal of accumulated dust. The weights of the individual clean filter elements for ITM3000 and ITM5000 are listed below.

Item Number	Description	Individual Element Weights
A223-05-020	ITM100	0.78 kg
A223-05-019	ITM300	0.50 kg
A223-05-018	ITM800	2.28 kg

The filter element can now be replaced in the ITM filter body following the same procedure as for removal.

5.2 Maintenance Frequency – Non Metallurgy Applications

Use the procedures in Sections 5.3 to 5.7 drain, clean and refill the inlet traps as necessary. How often you need to use these procedures depends on your application; determine your maintenance plan according to your experience.

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5.3 Drain and Clean the ITO Inlet Catchpot

Refer to Figure 1 for the ITO20K catchpot or to Figure 2 for the ITO100, 300 and 800 catchpots for items in brackets.

1. Place a suitable container under the drain-plug (15); unscrew the drain-plug and drain any fluid into the container. Dispose of the fluid safely; refer to Section 6.2.
2. If necessary (that is, if there are solids or liquids still trapped in the catchpot):

   Undo the handwheels (9); remove the bezel (10), the gasket (11), the sight-glass cover (12, if fitted) and the sight-glass (13).
   If necessary, shake out any solids into a suitable container.
   Dispose of the solids safely; refer to Section 6.2.
   Wipe the inside of the trap-body (14) and the sight-glass (13) with a clean, lint-free cloth. Alternatively, clean the inside of the catchpot with a clean cloth, water and detergent or a suitable cleaning solution, depending on the condition of the catchpot and the materials trapped.
   Replace the gasket (11) if it is damaged, then refit the bezel (10), the gasket (11), the sight-glass cover (12, if fitted) and the sight-glass (13) and secure with the handwheels (9).
3. Refit the drain-plug.

5.4 Clean and Refill the ITC Inlet Chemical Trap

Refer to Figure 1 for the ITC20K trap or to Figure 2 for the ITC100, 300 and 800 traps for items in brackets.

1. Undo the handwheels (9), remove the bezel (10), the gasket (11), The sight-glass cover (12, if fitted) and the sight-glass (13).
2. Lift out the chemical trap basket assembly (2). Undo the knurled nut that holds the inner cover (1) and remove the inner cover from the basket.
3. Shake out the used trap material into a suitable container. Dispose of the used trap material safely; refer to Section 6.2.
4. If necessary, clean the basket with a clean cloth, water and detergent or a suitable cleaning solution, depending on its condition.
5. Refill the basket with new trap material. Shake the basket to compact the trap material and fill it to approximately 6 mm below the top of the stud that holds the inner cover. Refit the inner cover.
6. Remove the bottom gasket (23) from the inside of the trap-body (14). If necessary, clean the inside of the trap-body with a clean, lint-free cloth.
7. Replace the bottom gasket (23) if it is damaged. Place the bottom gasket and the basket in the trap-body.
8. Inspect the sight-glass gasket (11); replace the gasket if it is damaged. Refit the sight-glass assembly and secure it with the handwheels.

5.5 Clean and Refill the ITD Inlet Desiccant Trap

Refer to Figure 1 for items in brackets.

1. Undo the handwheels (9), remove the bezel (10), the gasket (11) and the sight-glass (13).
2. Lift out the desiccant trap tray assembly (3).
3. Shake out the used desiccant into a suitable container. Dispose of the used desiccant safely; refer to Section 6.2.
4. Wash the tray assembly in clean water and dry it thoroughly. If necessary, clean the inside of the trap-body with a clean, lint-free cloth.
5. Refill the trays with a thin layer of new desiccant (approximately one Quarter full) and leave the surface loosely packed to expose a large surface area. Place the tray assembly in the trap-body.
6. Inspect the sight-glass gasket (11); replace the gasket if it is damaged. Refit the sight-glass assembly and secure it with the handwheels.

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5.6 Clean the ITF Inlet Dust Filter

Refer to Figure 1 for the ITF20K filter or to Figure 2 for the ITF100, 300 and 800 filters or items in brackets.

1. Undo the handwheels (9), remove the bezel (10), the gasket (11) and the sight-glass (13).
2. Lift off the filter locating spacer (5, if fitted) and the top gasket (6) and then lift out the filter element (4) and the bottom gasket (7).
3. Clean the element if it is in good condition. Remove dry dust with a Vacuum cleaner. Replace the element if it is damaged or contaminated. Replace the gaskets if they are damaged.
4. If necessary, remove dry dust from the inside of the trap-body with a Vacuum cleaner and then wipe the inside with a clean, lint-free cloth.
5. Place the bottom gasket, filter element and top gasket in the trap-body.
6. Inspect the sight-glass gasket (11); replace the gasket if it is damaged. Refit the sight-glass assembly and secure it with the handwheels.

5.7 Clean the ITM High-Capacity Inlet Dust Filter – Non Metallurgy Applications

Refer to Figure 2 for items in brackets.

7. Undo the handwheels (9), remove the bezel (10), the gasket (11) the top plate or the sight-glass (13).
8. Lift out the high-capacity filter element (8).
9. If the element is in good condition, wash it in a suitable cleaning solution. Replace the element if it is damaged or heavily contaminated.
10. If necessary, remove dry dust from the inside of the trap-body with a vacuum cleaner and then wipe the inside with a clean, lint-free cloth.

    Filtration efficiency can be improved by oil wetting the ITM filter element. This is possible in applications where the vacuum pumps can tolerate oil carryover e.g. when using oil sealed rotary vane or piston pumps but not in applications where dry oil free vacuum pumps are used. To oil wet the ITM filter element immerse the clean high-capacity filter element in a bath of vacuum pump oil and allow to drain over the bath for several hours before refitting the element in the ITM filter body.

11. If necessary, immerse the clean high-capacity filter element in a bath of vacuum pump oil and allow it to drain over the bath for several hours but not for dry pumps.
12. Place the high-capacity filter element in the trap-body.
13. Inspect the top plate gasket (11); replace the gasket if it is damaged. Refit the sight-glass assembly and secure it with the handwheels.

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6 STORAGE AND DISPOSAL

6.1 Storage

1. Clean the inlet dust filter as described in Section 5.
2. Refit protective covers over the inlet and outlet-ports.
3. Place the accessory in its protective packaging.
4. Store the accessory in a cool dry place until required.
5. When required for use, prepare and install the accessory as described in Section 3.

6.2 Disposal

Dispose of the accessory and any components removed from it safely in accordance with all local and national safety and environmental requirements.
Take particular care with components, liquids, chemicals and materials that have been contaminated with dangerous substances.

7 SERVICE, ACCESSORIES AND SPARES

7.1 Introduction

BOC Edwards products, spares and accessories are available from Edwards companies in Belgium, Brazil, China, France, Germany, Israel, Italy, Japan, Korea, Singapore, United Kingdom, U.S.A. and a worldwide network of distributors. The majority of these centres employ Service Engineers who have undergone comprehensive BOC Edwards training courses.

Order spare parts and accessories from your nearest BOC Edwards company or distributor. When you order, please state for each part required:

Model and Item Number of your equipment.
Serial number (if any).
Item Number and description of part.

7.2 Service

A worldwide network of BOC Edwards Service Centres support BOC Edwards products. Each Service Centre offers a wide range of options including equipment decontamination; service exchange; repair; rebuild and testing to factory specifications. Equipment, which has been serviced, repaired or rebuilt, is returned with a full warranty.

Your local Service Centre can also provide BOC Edwards engineers to support on-site maintenance, service or repair of your equipment.

For more information about service options, contact you're nearest Service Centre or other BOC Edwards company.

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7.3 Spares Common to All Traps, Catchpots and Filters

Description Item Number

Sight-glass o-ring for ITx20K H021-25-201

Sight-glass gasket for ITx20K A271-59-603

Sight-glass o-ring for ITx100 and 300 H021-20-103

Sight-glass gasket for ITx100 and 300 A271-59-601

Sight-glass o-ring for ITx800 H021-20-112

Sight-glass gasket for ITx800 A271-59-602

7.4 Spares for ITC Inlet Chemical Trap

Description Item Number

Activated charcoal 0.5 kg H122-05-001

Activated charcoal 3.0 kg H122-05-002

Activated alumina 0.45 kg H026-00-050

7.5 Spares for ITF Inlet Dust Filter

Description Item Number

Filter element kit for ITF20K (element and gasket) A442-01-800

Filter element kit for ITF100 (element and gasket) A442-02-800

Filter element kit for ITF300 (element and gasket) A442-03-800

Filter element kit for ITF800 (element and gasket) A442-04-800

7.6 Spares for ITM High-capacity Inlet Dust Filter

Description Item Number

Filter element kit for ITM100 (element only) A223-05-020

Filter element kit for ITM300 (element only) A223-05-019

Filter element kit for ITM800 (element only) A223-05-018

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