

BX-804

PM2.5 WINS INLET

MANUAL



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Table of Contents

1.0	INTRODUCTION	4
2.0	SET UP	4
3.0	REMOVAL	4

Table of Figures

	FIGURE 1: BX-804 Sectional View	5
	FIGURE 2: BX-804 Exploded View	6

1.0 Introduction

The BX-804 is a well type impactor that uses a fiberglass filter held in a well under the impaction jet. The filter is wetted with 1mL of low volatility oil (part #9595, bottle of Dow 704 silicone oil) that serves to prevent particle bounce. A sectional and exploded view of the Impactor are shown in figure 1 and 2, respectively.

2.0 Set Up

- A. Unscrew the impactor upper and lower housing sections and remove the impactor well assembly.

NOTE: Make certain that the "O" rings that seal the impactor housing assembly into the holder are present, clean and intact.

- B. Pull the upper impactor well from the lower impactor well.
- C. Ensure that both parts of the assembly are thoroughly clean.
- D. Fill the cup with 1mL of silicone oil (to the line).
- E. Place a 37mm fiberglass filter on top of the oil and ensure that it sinks to the bottom.
- F. Reinstall the upper impactor well into the lower impactor well and push down.
- G. Place the complete loaded impactor well assembly into the lower impactor housing section and reassemble with the upper impactor housing section.
- H. Insert the assembly into the bottom of the PM10 inlet. It is held in place by the friction of the inlet "O" ring.

NOTE: If difficulty is encountered, re-grease the "O" ring.

- I. The standard filter holder may now be inserted into the bottom of the WINS with the same technique.

3.0 Removal

- A. At the completion of each 24-hour test, the unit should be disassembled and cleaned.
- B. Cleaning may be accomplished by ultrasonic bath or carefully wiping with lint free materials.
- C. Disassemble the well and discard the contents.

NOTE: In many instances it may be found convenient to obtain a spare impactor well assembly for each impactor.

- D. Maximum elapsed time between cleanings is 5 days.

NOTE: Failure to do so could exceed the wetting/ holding capacity of the oil/ filter.

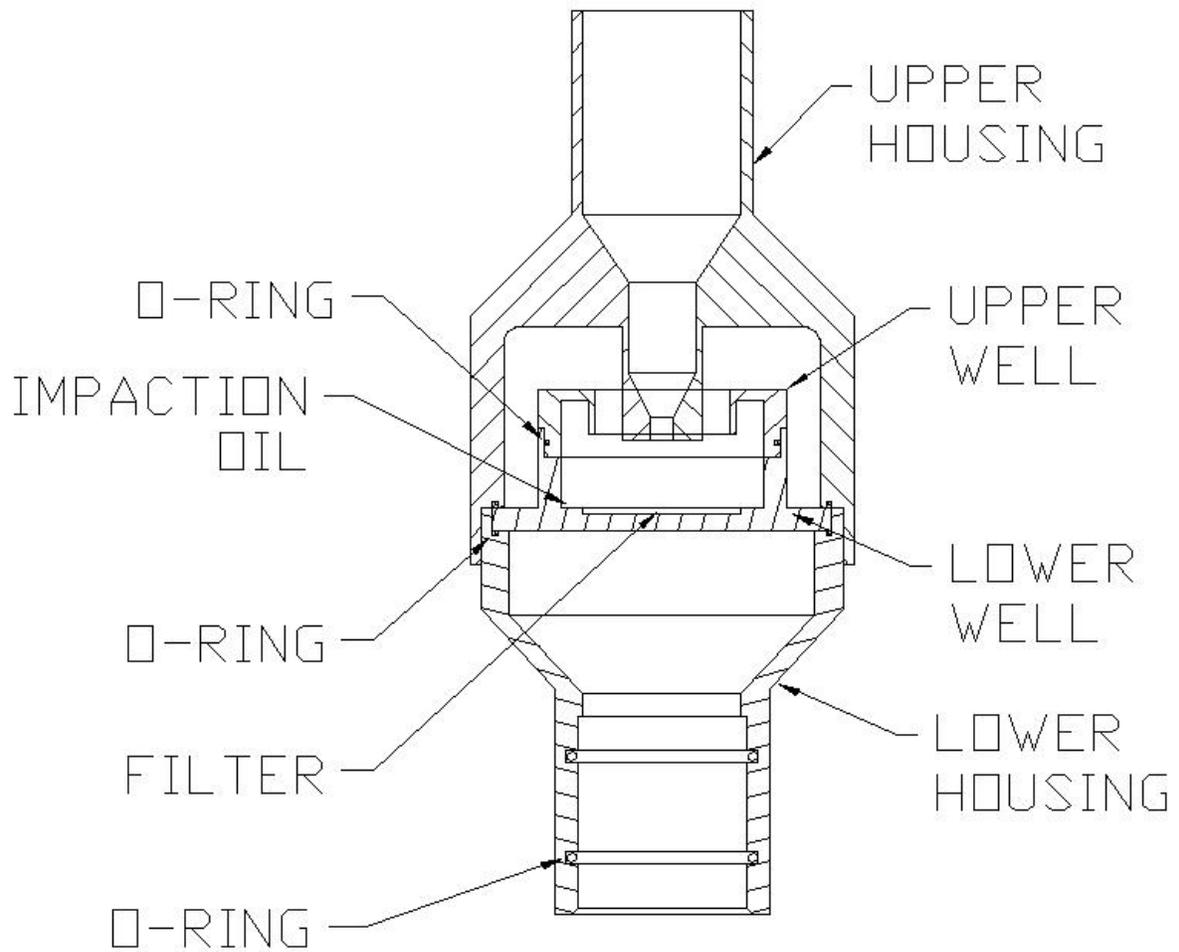


FIGURE 1: BX-804 Sectional View

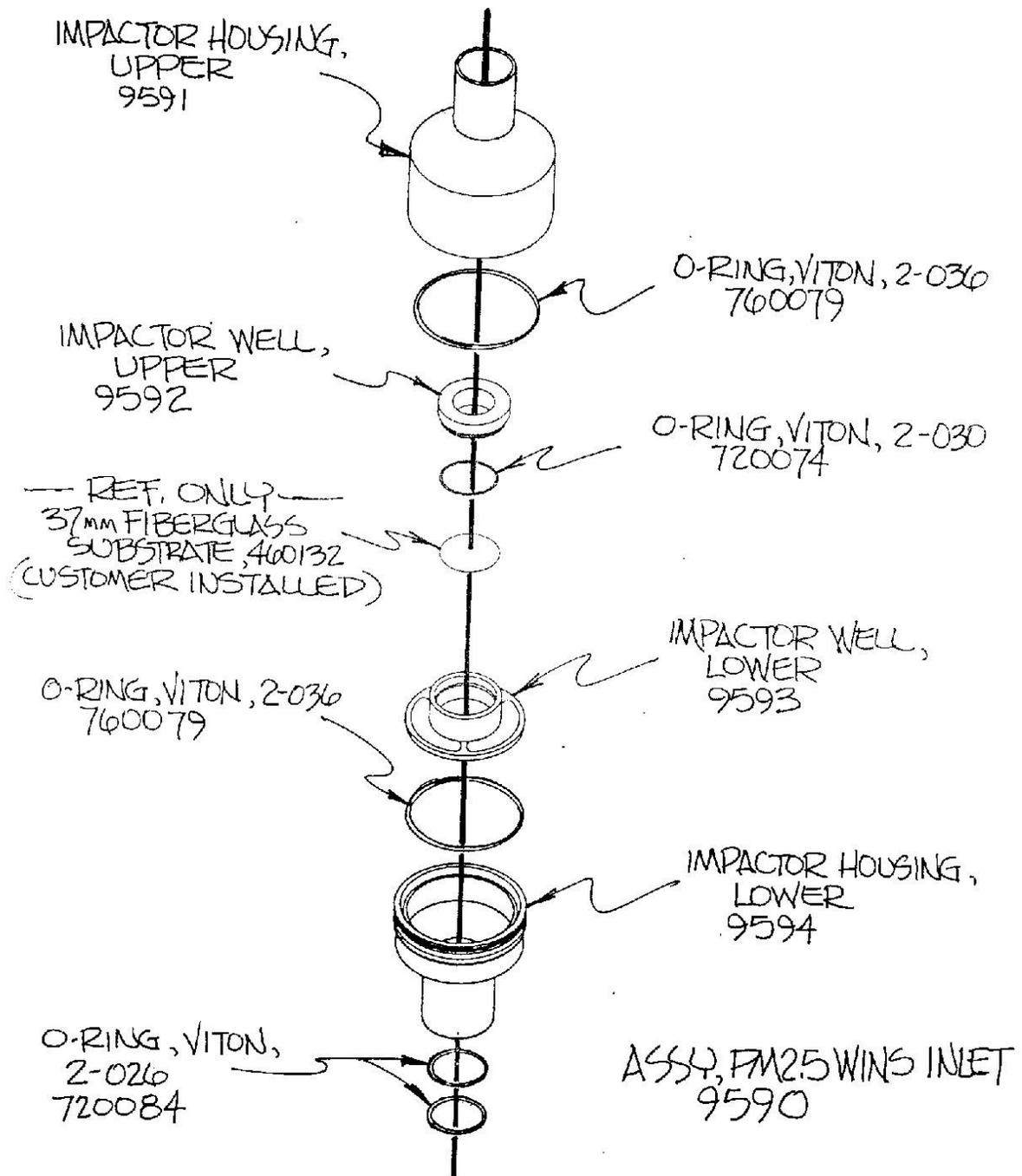


FIGURE 2: BX-804 Exploded View