

User's Manual



Portable Powder Filling Equipment

## **KANADIA FYR FYTER PVT.LTD.**



## **User's Manual** **Portable Powder Filling Equipment Model 2017**

KANADIA FYR FYTER PVT LTD.  
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## 1. Product description

- ✓ Portable Powder Filling Equipment Model 2017 for emptying, filling and sieving procedures of fire extinguishers of all makes and sizes.
- ✓ Emptying and filling absolutely dust free in continuous operation.
- ✓ Inter storage of extinguishing powder up to 30kg.
- ✓ Lockable ball valves for silo.
- ✓ There is one Inspection Window for powder control.
- ✓ Cleaning of filter package and hopper achieved automatically.
- ✓ An advantage is the diagonally positioned, removable sieve, which retains lumps and contamination.
- ✓ Height adjustment by crank shaft.
- ✓ The composition of this machine with accessories is sufficient to empty and fill all portable fire extinguishers from 1 kg up to 12 kg and additionally movable Extinguisher 25 kg to 75 kg.
- ✓ The Weights area indicated on Operating panel. The Filling OF movable Extinguishers is to be carried out with the Help of a special Filling Adaptor.

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**KANEX** Portable Powder Filling Equipment



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## 2. Technical Details

Transportation Height: 1170 MM

Working Height : Adjustable max.750 MM

Breadth : max. 520 MM

Length : 720 MM

Hopper : Metal

Weight : 78 kg

Suction capacity : 12-18 Kg /min

Supply : 230 V, 10 A, 50 Hz.

Noise Level : 64 dB (A)



### 3. Preparations & Extinguisher Filling operation

Warning: Pay attention to a safe stability of the machine.

1. Insert the suction hose (1) into the connection (15) of the hopper.
2. Close the appropriate suction lance (3) and insert in to the other end of the suction hose (1).
3. Connect electrical cable (4) to main supply 1-phase, 230 V, 10 Amp, 50 Hz.
4. Start the machine by switch (5).
5. Close the filling valve (6) (Handle in Vertical Position).
6. Suck the Powder Out of the extinguisher to be emptied by suction lance (3) fill it Directly into a vacuum sealed extinguisher adapted directly under Filling valve (6) (Both Extinguisher have same filling Weight)
7. When the Powder Quantity has been sucked into the Fire extinguisher, make Filter cleaning that all the powder is filled into the Extinguisher.



#### 4. Inter Storage of powder in Machine Hopper.

1. Close filling valve (6) (Handle in horizontal Position)
2. Suck out the Powder from extinguisher or Powder bag. (Which is placed on a separate scale) by using suction lance (3).
3. Always pay attention to suck also some powder by moving the lance (3) up and Down constantly inside the Powder.
4. The sucked Air serves for cooling the vacuum pump.
5. The storage capacity of the hopper is up to 30 kg Powder.
6. When the Requested powder Quantity has been sucked in to the hopper (7), it is placed on top of the extinguisher (8) to be filled by means of handle wheel (9) so that the filling valve (6) with rubber cone adaptor (10) is connected tightly to the Extinguisher to be filled.



## 5. Filling Procedure

1. Open the filling valve (6).
2. By repeated opening and closing of the suction valve (2) the extinguisher is filled.
3. After wards, cleaning of the filters (18) has to be done.

Cleaning of the Filters (18) & Filling Detail.

After each filling, the filters have to be cleaned as follows:

1. The extinguisher to be filled has to be adapted underneath the filling valve (6).
2. Close suction valve (2)
3. The Filling valve (6) stays open.
4. Make filter cleaning by opening and closing the Air – Matic –valve (19) several times.
5. Air-Matic –valve (19) opened as long as the switch is pressed.
6. Repeat this Procedure server times if necessary.
7. The Powder remaining inside the hopper has to be transferred in to the extinguisher by opening and closing the suction valve (2).
8. Close the suction valve (2) half way (45 degree inclination), lift up the hopper (7) by means of hand wheel (9). Close filling valve (6)and open suction valve (2). Remove the extinguisher (8).
9. Next Filling Procedure can be started.
10. In Continues operation, it is Possible to fill directly from one extinguisher in to another or from powder bag into as extinguisher.
11. For this extinguisher has to be placed underneath the hopper at the rubber cone adaptor and both valves (2 and 6) have to be open.

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12. Due to the fact that machine is operating on vacuum principle, it is necessary that all opening of the extinguisher are closed, beside the filling opening itself.

## 6. Maintains Schedule

Sr. No.	Daily	Monthly
1	Controlling of paper filters (16) for powder residues. In case of any powder you have to determine the reason Immediately (possible reason : damaged filter (18) or leakage of the rubber sealing)	Greasing of the crank gear
2	Cleaning of powder sieve (12) (see remark)	Lubrication of toothed rack
3	Controlling of cable (4) and plug for fracture	Lubrication of the wheels
4	General attending of the machine	Maintains and control according to the instruction of the vacuum pump
5	Controlling of powder Hose (1) for any damage	
6	Controlling of oil level in the inspection glass of the vacuum pump(14)	



## 7. Remark

In case of decreasing suction capacity, the sieve (12)-located diagonal inside the hopper – has to be cleaned as follows.

- Start vacuum pump
- Close filling valve (6)
- Open suction valve (2)
- Unscrew swivel nut (12a), turn sieve (12) for 180 degree and remove it – this avoids powder dropping out
- Clean sieve
- The sieve (12) is remounted inside the hopper (7) with running vacuum pump (14.)
- Align the sieve (12) “point” to “point “ and insert it. Screw the swivel nut (12a) tightly.
- Filling can be continued.

Unusable powder can be sucked directly from the extinguisher into the hopper (7). For this, the sieve has to be removed and replaced by the blind stop. It can be disposed into a hopper with bag and insert.

Alternatively, the hopper can be emptied by “Free-fall” into a bag or into a Dustbin.

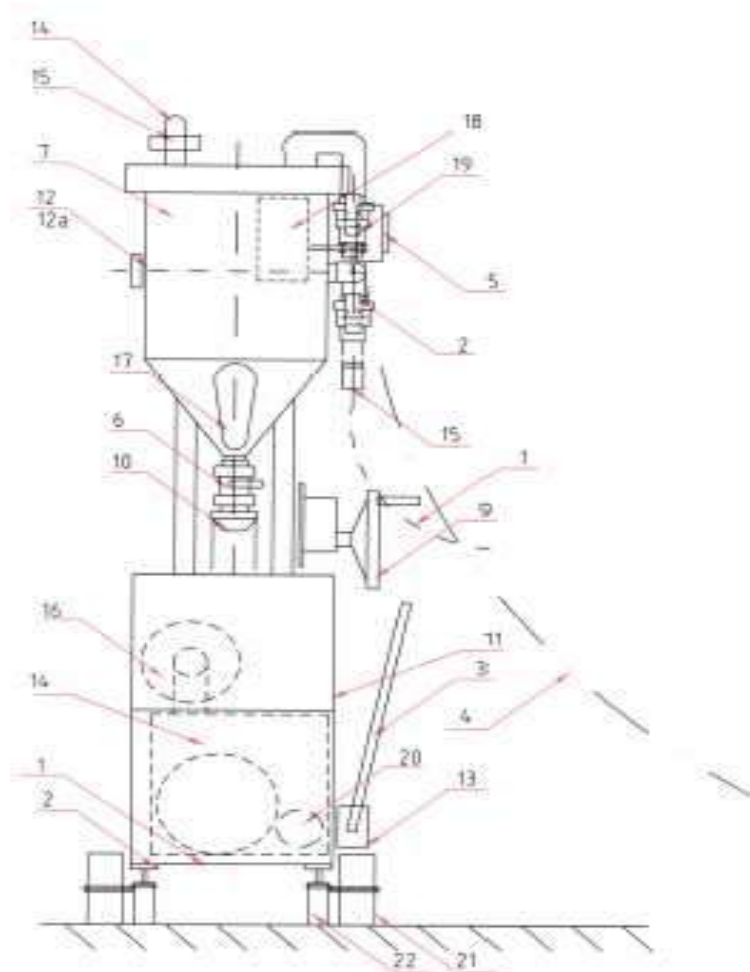


## 8. Part List & Part Number

1. Suction hose
2. Suction valve
3. Suction lance
4. Electrical cable
5. Electrical switch
6. Filling valve
7. Hopper
8. Extinguisher (not shown in Fig.)
9. Hand wheel
10. Rubber cone adaptor
11. Frame
12. Sieve 12a).swivel nut
13. Side support for suction lances
14. Vacuum pump
15. Suction connection
16. Paper filter
17. Inspection window
18. Filter
19. Air-Matic-valve
20. Oiler
21. Wheel
22. Wheel with locking



## 9. Schematic Drawing



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