



* tools with perfection

TRISTAR INTERNATIONAL
Operation And Instructions Manual
TUBE CLEANING MACHINE FOR
HEAT EXCHANGERS

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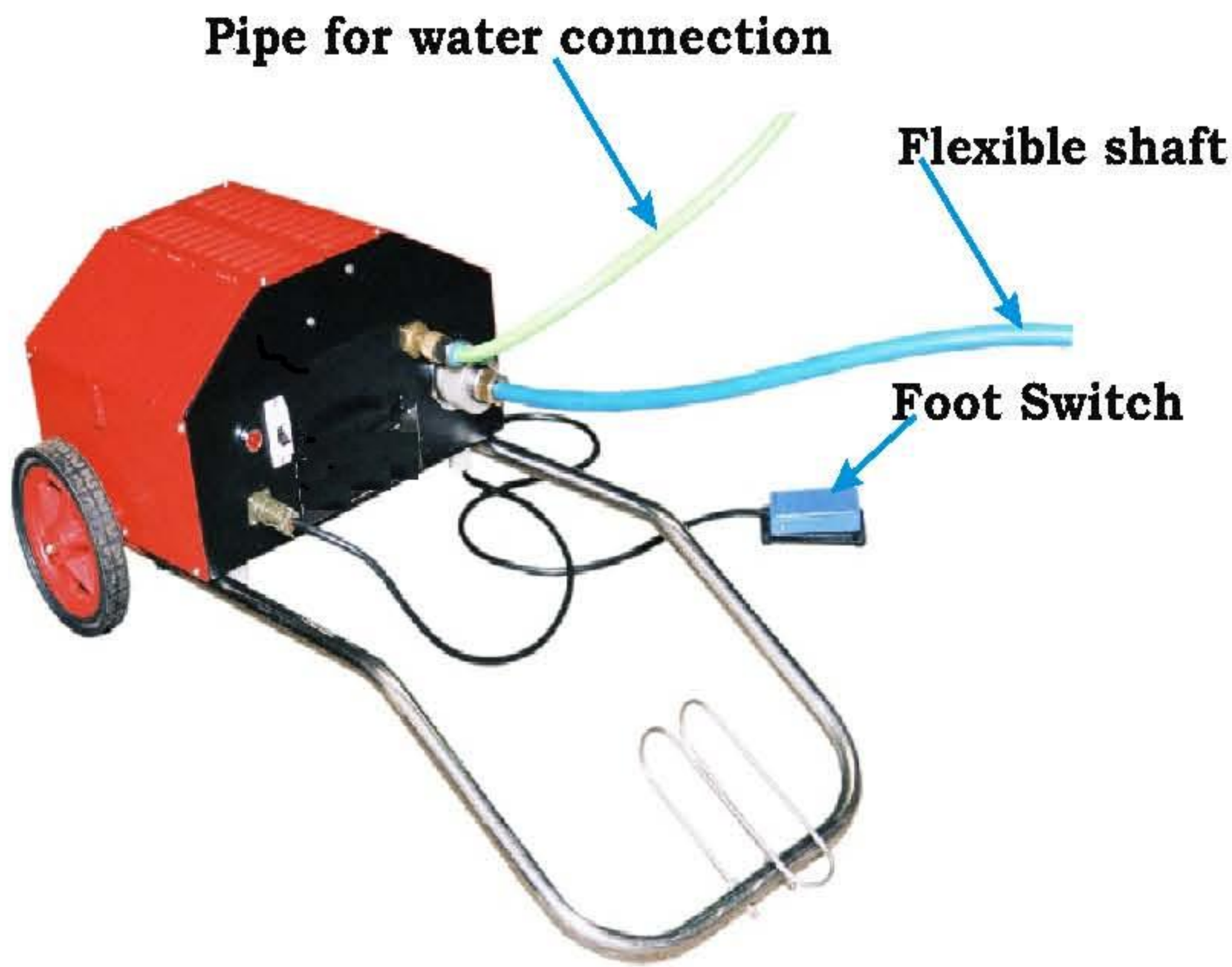
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Manual for Wet Application Tube Cleaners:

Steps for operating machine:

A. Before starting machine, place the trolley horizontally. (Pic. 1)



B. Open the storage box of trolley and connect plug pin to plug for electric supply. Similarly take out blue color pneumatic switch.

C. Connect four pin connector (male) of foot switch to four pin connector (female), which is fixed on trolley top.

(Female) Four Pin Connector on trolley



Pic. (B)

Electric Supply Four Pin Connector of foot switch



Pic. (C)

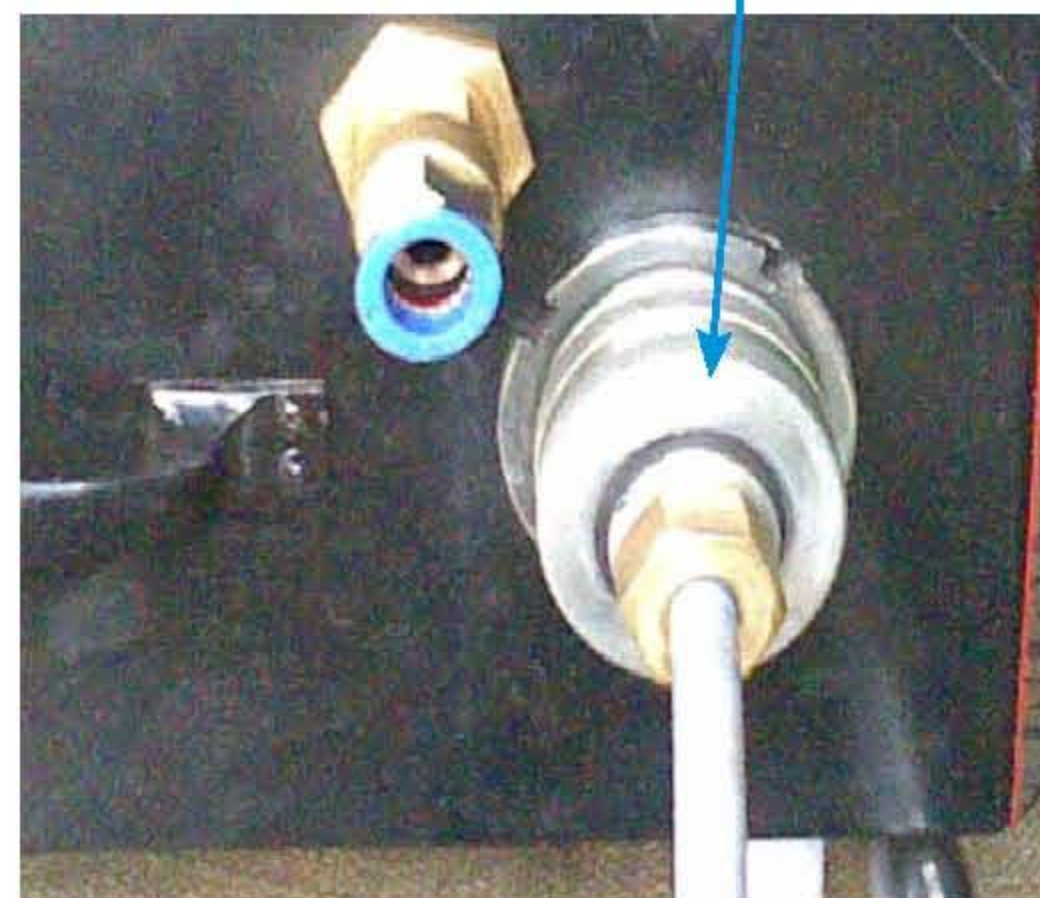
d. Connect flexible shaft to machine (Refer Pic. D & Pic. E). Keep flexible shaft as straight as possible or keep it in U shape as shown in Fig. G.

Water line to be connected Flexible shaft to be connected



Pic. (D)

Flexible shaft after connection



Pic. (E)

e. Connect nylon pipe for water supply to water inlet socket & other end water supplying line. Do not exceed pressure of water above 7 kg/cm².

Water pipe connection for water supply



f. Switch on the electric supply & MCB located on trolley.

g. After glowing red light on, keep pressing foot switch. To keep machine operating press foot switch continuously.

h. Within 4-5 minutes, water will start coming out of tip of tool of flexible shaft. Then insert flexible shaft with tool, into the tube & start cleaning.

i. Depending on the length of tube, adjust the location of stopper on flexible shaft.

PRECAUTIONS:

A. Press Foot Switch Completely

B. Do not exceed water pressure above 7 Kg/cm².

C. During cleaning of tube, do not wind flexible shaft, put it as straight as possible or keep it in U shape as in Fig.(G)

Note: Do not wind or coil the flexible shaft during cleaning. It may be break inner core of flexible shaft.

