Section 3 - forecasted use

Type Of User	This press has been designed for amateural use. This unit does not require specific training but we recommend that this machine be used by people having a minimum of experience in this field. **We strongly discourage that this press be used by children under the age of 16.**
Use	This press has been designed for pressing whole grapes or crushed grapes. It can also be used for pressing fruits like apples and pears etc..
Movements	The only movement of the idropress is the expanding of the membrane which is protected by the wood basket cage.
Environment For Unit	The idropress is build with steel Fe 37 and varnished with paint. The basket is made up of wood slats screwed on steel loops. We advise that press be not exposed to atmospheric agents and when not in use be covered with a nylon sack.
Operating Comands	Press operates manually and with the pressure of water.
Disconnection Of Idropress	Disconnect water tube from main suply line and follow maintenance and preservation instructions in section 7.
Improper Use	Idropress membrane must always be completely and uniformly filled with water. If membrane is only filled partially you will have a mushroom shaped membrane causing damage and weakening of same. **It is absolutely forbidden to use the idropress with top cover open or with block nut not in place or only partially tightened.**

Section 4 - technical data

Features

Model	Weight	Materials	Membrane	Pressure	Filling time
∅ 400	Kg 55	Fe 37+wood	Non toxic rubber	Atm. 3,5	**Fill membrane slowly**
∅ 450	Kg 65	Fe 37+wood	Non toxic rubber	Atm. 3,5	
∅ 500	Kg 82	Fe 37+wood	Non toxic rubber	Atm. 3,5	
∅ 550	Kg 105	Fe 37+wood	Non toxic rubber	Atm. 3,5	
∅ 700 A+B	Kg 230	Fe 37+wood	Non toxic rubber	Atm. 3,5	

LEGEND: A = on wheels B = spring loaded cover opening

Membrane Pressure Idropress is fitted with a membrane whose operating pressure varies from 2 to 4 atm. membrane has been tested to stand up to 7 atm (1 atm = 101325 Pa).

Control Comands All start and stop operations are manually operated using levers 1 and 2 as illustrated in figure 1, page 9.

Handling And Working Position Press can be moved manually or if mounted on wheels pulled with tow handle. For lifting use pins on top handle. Use adequate rope according to weight of press.
For installation and position of unit see chart herebelow with respective dimension of idropress models.

Model ⇨	∅ 400	∅ 450	∅ 500	∅ 550	∅ 700 basc.
height (mm)	H 1000	H 1000	H 1230	H 1230	H 1400
width (mm)	L 620	L 750	L 780	L 870	L 1000
depth (mm)	L 640	L 750	L 810	L 960	L 1140

Tab. 2

Place unit on flat surface in order to avoid that it moves during working operations and that liquid pours out from basin.
If press is mounted on wheels, block wheels before filling membrane

Section 5 - instructions for use

Loading Operations	• Before starting to load connect water entry tube and discharge tube and fasten both with clamps. • Fill cage and make sure to spread grapes uniformly. • **It is very important that upper part of membrane be covered with grapes.** If quantity of grapes is not sufficient to fill cage use already pressed grapes and distribute in such a way that no empty spaces remain around membrane. • Close press with cover and block well with lock and nut. Closing and opening operations are easier on models with the spring-loaded cover opening.
Pressing Operations	• Open water tap. • Make sure that loading lever (fig. 1, lever 1) is open. Lever 1 must be in horizontal position. Discharge lever 2 must be closed in vertical position • Loading lever 1 must be only opened slightly in order to fill membrane slowly so to allow for a better pressing of grapes.
Final Operations	On Job Completion: • turn lever 1 to vertical position to stop entry of water; • open lever 2 to discharge water (horizontal position); • wait till membrane is completely empty; • remove cover opening; • unload pressed grapes.
Control Operations	After every three pressing operations control membrane flange bolts (pos. 15, 16, and 17) and make sure they are well tightened. Once in a while check all other bolts and screws.. Above operation is very important in order to avoid loss of water and ensure correct pressure in membrane.

Water System Group

The drawing herebelow shows how water system group is set up with all respective water entry and discharge levers (1-2) and presure gauge manometer (3).

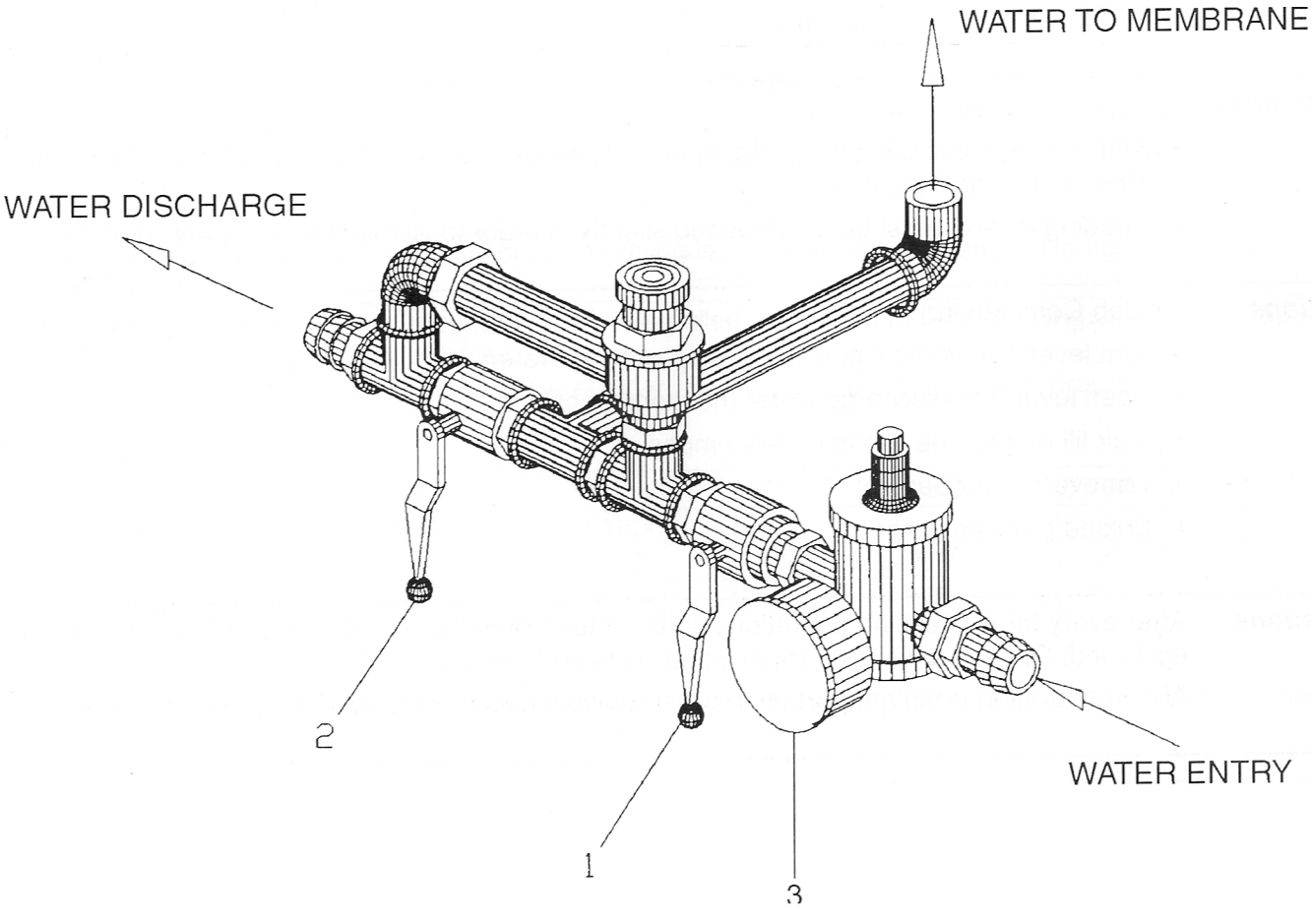

Fig. 1

Section 6 - maintenance, preservation and precautions

Maintenance Operations	Before carrying out any type of maintenance operations make sure all water tubes are disconnected and that membrane is completely empty.
Spare Parts And Replacement	Safety valve and pressure reducing valve are calibrated by the supplier. In case of replacement ask for original parts and make sure that substitution be carried out by qualified and trained personell. Replacement of membrane can be carried out by owner. If membrane is punctured or begins to crack do not try to repair it but replace complete membrane. All other parts can be easily be replaced by operator.
Preservation	Once you finished pressing operations wash membrane with luke warm water (40/50 °C ca.). When press is not in use store in cool environment, avoid exposure to sunrays and humidity in order to avoid damage to wood slats. We recommend to cover membrane with talcum powder to ensure longer life.
Precautions During Working Operations	Make always sure that cover is well blocked and nut well tighttened to avoid cover from coming off when membrane expands. This may cause damage to membrane and product. Never use press with cover open. If cover is open and membrane is filled with water this will damage membrane and reduce durability.