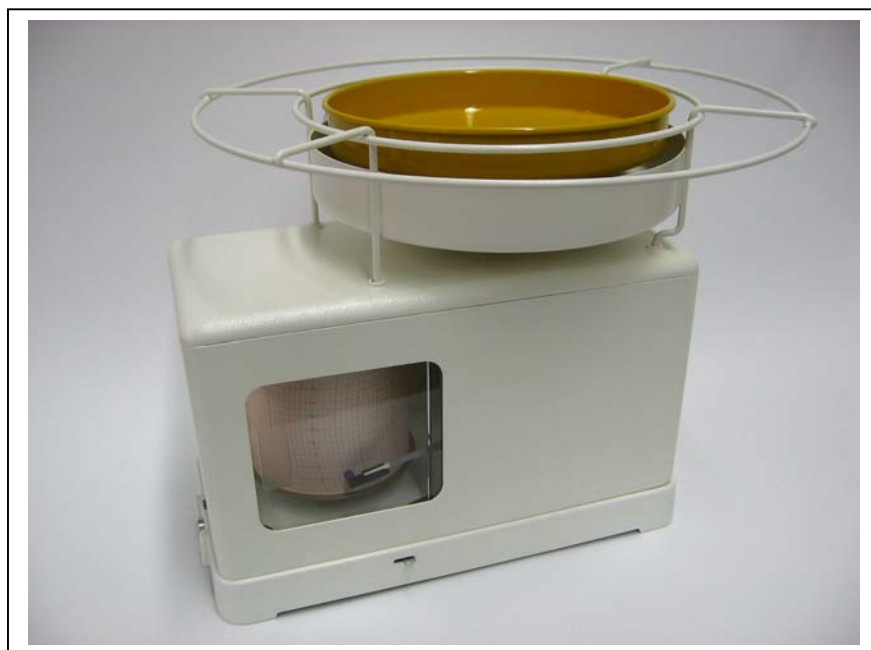

Evaporation Recorder

6.1420.00.000



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Contents

1	Models	2
2	Application	3
3	Construction and Mode of Operation	3
4	Putting the instrument into operation:	3
5	Maintenance:	5
5.1	Replace the Chart Strip	5
5.2	Replace the Recording Pen	5
6	Technical Data.....	5
7	Accessories / Consumable	6

Figuresn

Figure 1	3
figure 2 figure 3	4

1 Models

Order-No.	Recording Time	Clockwork
6.1420.00.000	7 days	Spring tension drive

2 Application

The evaporation recorder serves for the measurement and recording of the evaporation of a water quantity in the ambient atmosphere. The recording drum is driven accurately to the time by means of a spring tension drive which is wound up by hand.

3 Construction and Mode of Operation

The clockwork, the column with the lever system, and the evaporation basin are mounted on a base. A tilting housing top with vision panel serves for covering the lever system and the clockwork.

The evaporation measurement is carried out acc. to the weighing principle. A basin filled with water changes the weight due to the evaporation. The change in weight is recorded via a system of levers by means of a felt pen on a chart strip.

4 Putting the instrument into operation:

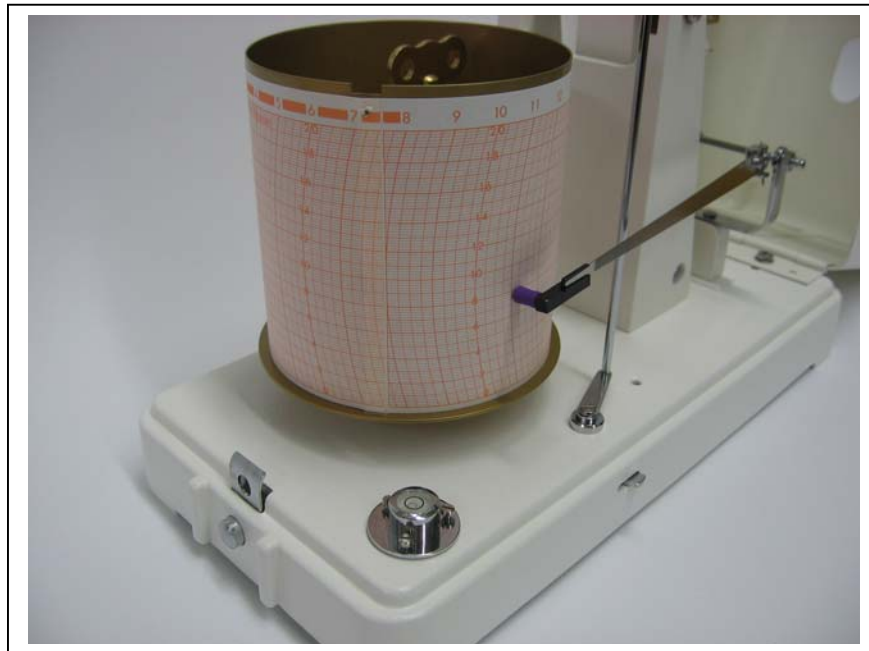


Figure 1

1. Set up the instrument upon a shock-absorbent, even surface . You can check whether it is even by means of the levelling indicator on the base.

2. After pressing the button the housing top of the instrument can be opened.
Remove the transportation lock (pieces of foam).from the instrument.
Afterwards, push the front lever to the left, so that the felt pen lifts up from the chart strip.
3. Screw the weight (fig. 2) which is attached to the base onto the screw of the lever. (fig. 3)



figure 2



figure 3

4. Insert the chart strip. To do this, remove the drum of the clockwork by unscrewing the knurled nut. Press the beginning of the chart onto the pin which protrudes from the drum and paste the gummed end on the strip to the beginning of the chart .

Attention:

The bottom of the chart strip must fit on the drum edge.

5. Remove the protective sleeve from the felt pen.
6. Wind-up the clockwork by turning the key in counter-clockwise rotation. The key is located in the drum
7. Set the drum clockwork to the correct time sector of the chart strip in relation to the recording pen by rotating clockwise.
8. Close the case, put on the basket shield and the evaporation basin, fill with water until the recording pen is on the zero line of the chart.
9. Push the front lever from left to right so that the felt pen moves near to the strip chart.
 - The instrument is now ready for operation.

5 Maintenance:

5.1 Replace the Chart Strip

1. Remove the basket shield and the evaporation basin from the instrument.
2. After pressing the button the housing top of the instrument can be opened.
3. Push the front lever to the left, so that the felt pen lifts up from the chart strip.
4. Replace the used chart strip for a new one (see chapt.4 , item 4). The evaporation basin is to be refilled with water (see chapt.4, item 8) after each replacement of chart strip.

5.2 Replace the Recording Pen

1. Remove the basket shield and the evaporation basin from the instrument.
2. After pressing the button the housing top of the instrument can be opened.
3. Push the front lever to the left, so that the felt pen lifts up from the chart strip.
4. Remove carefully the empty felt pen from the recording arm. Remove the protective sleeve from the new felt pen. Afterwards, fit the new pen.
5. Put on basket shield and evaporation basin.
6. Push the front lever to the right so that the felt pen moves near to the strip chart.

6 Technical Data

Measuring range	0... 20 mm WC (water column) [20 mm WC = 20 kg/m ²]
Division of chart strip	0,2 mm WC
Recording width	80 mm
Evaporation surface of the evaporation basin	250 cm ²
Filling quantity of the evaporation basin	500 ml
Clock work	Spring tension drive
Recording time	7 days;1 drum rotation per 1 day
Feed	11,45 mm / h
Accuracy of operation	± 60 s/day at 20°C acc. to DIN 8300
Construction of clock work drum	like DIN 58658 (dimensions: 93 mm high; Ø 93 mm)
Dimension (w/o basket shield and evaporation basin)	280 x 140 x 170 mm (w x d x h)
Weight	3,2 kg

7 Accessories / Consumable

Description	Order-No.
Felt pen (minimum purchase 6 pieces)	500 847
Chart strip 1420/1 (1 set = 100 Charts)	205 218

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