



T1-32

MOTOR DRIVE FOR SPRAY APPARATUS

KEYWORDS

MOTOR DRIVE FOR SPRAY APPARATUS, IEC 60529, 60335-1, IPX3, IPX4, EN ,GB.

COMPLIANCE

T1-32 MOTOR DRIVE FOR SPRAY APPARATUS is designed and manufactured in compliance with IEC 60529,...

INTRODUCTION

T1-32 MOTOR DRIVE FOR SPRAY APPARATUS is intended for determining the degree of protection, against ingress of water IPX3 and IPX4.

MAIN FEATURES

OSCILLATING MECHANISM WITH TUBE CARRIER, ELECTROMOTOR AND
ADJUSTABLE CARRIER OF SUPPORTING END BEARING

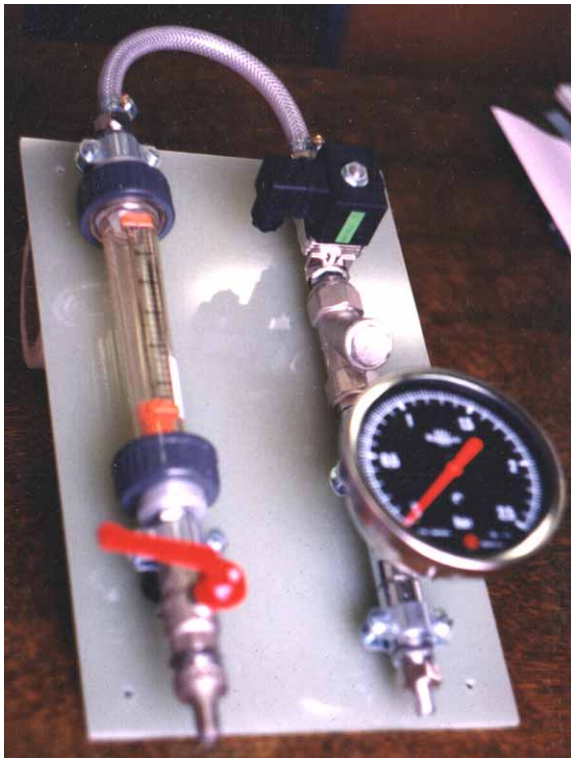
- can be rotated around the basic vertical carrying tube; this enables the use of same space for either IPX1,2 or IPX3,4 test
- Height of oscillating mechanism can be adjusted
- Mounting (changing) of oscillating tubes can be easily achieved by simple insertion of tube and tightening of knurled nuts.
- MAIN CONTROL UNIT
- Water proof plastic casing, should be mounted on a wall, so that it enables the operator to stay dry
- Start and stop buttons
- Timer for test duration
- Knob for oscillation speed
- Switch for turning water on/off
- Elements of control circuit are supplied by 24 V AC
- After the operating time, that had been set on the timer, runs out the tube returns to vertical position, apparatus is switched off, and the water is shut off.



The equipment described here is subject to redesign without notice. The change will not impair the function of apparatus its characteristics or the price.

WATER SUPPLY UNIT

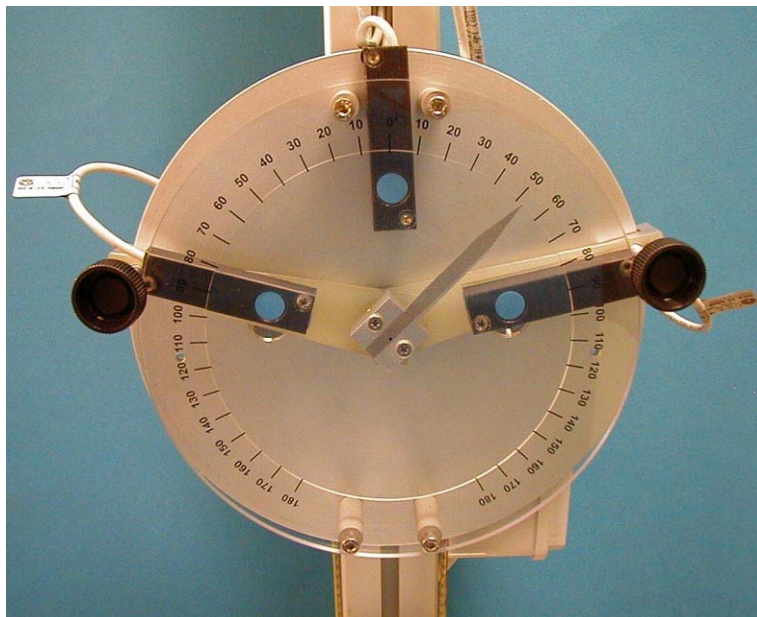
- Attached on the wall console, so that it enables the operator to stay dry
- Manual valve for flow controlling
- Water filter
- Flow meter
- Manometer
- Electromagnetic valve that is controlled by control unit



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ANGLE CONTROL UNIT

- Control of oscillation angles
- Control of stop position (usually vertical)
- Monitoring of tube position
- This unit is so designed that it is possible to conduct symmetric and asymmetric oscillations with steplessly adjustable both end positions and stop position.
- Equipped with scale (180 deg), three limit sensors and pointer



DESCRIPTION

Electromotor is supplied by 3-phase voltage 220 V that is generated by frequency transformer (motor controller) with feed-back regulation. The controller also enables steplessly adjustable braking (and acceleration) that is performed each time before and after the change of direction of the tube. This should be done to ensure uniform unwavering oscillating of the tube. The current is also limited for the reason of motor protection. If oscillating tube strikes in obstacle during operation, adjustable electronic current limiter limits the torque on the shaft of electromotor and protects the tube, the motor and the obstacle (person or sample). Oscillating tube stops until the obstacle is removed, and after that normally continues oscillating.

DESIGN

Basic framework is made of anodized sectional aluminium profiles. All other parts are made of stainless steel AISI 304 (DIN W. No. 1.4301 X5CrNi18-10)

http://en.wikipedia.org/wiki/Stainless_steel.

TECHNICAL SPECIFICATION

MECHANISM

System of attachment	wall mounting-pivoted (folding)
Tube height adjustment (h=2500)	500 - 1250 (axis)
Smallest tube	R=200
Biggest tube	R=1000 (1200)
Height of mechanism	h=2500 - h=3500
Length of mechanism	working position l=2750 (with R 1000)
Mechanism folded along the wall	max. 300 mm from the wall

CONTROL UNIT

Supplying voltage	230 V, 50 Hz, 2 A
Operating voltage	24 V DC; safety
Time setting	1-60 min
Angle adjustment	steplessly adjustable $\pm 180^\circ$
Tube stop position	adjustable

MOTOR WITH REDUCTION GEAR

Supplying voltage	3 f 230 V, 50 Hz
Power consumption	0,25 kW to 0,37 kW
Rpm at 50 Hz	900 o/min. to 1400 o/min.
Rpm at 120 Hz	1800 o/min. to 2800 o/min.
Reduction	1:100, M=500 Nm

FREQUENCY TRANSFORMER (MOTOR SPEED REGULATOR)

Method of regulation	linear frequency-voltage
Supplying voltage	line 230 V $\pm 10\%$, 50 Hz
Output (to motor)	3 x 230 V, 0-120 Hz
Potentiometer	10 k LIN., U=0-10 V DC
Power consumption	0,37 kW
Brake of motor	electronic - frequency
Stopping time	adjustable
Limitation of motor power	steplessly adjustable

WATER SUPPLY UNIT

System of mounting	wall mounting
Input and output of water	1/2"
Manual valve	1/2"
Electromagnetic valve	1/2"
Flow meter	30 - 300 l/h
Water filter	on request

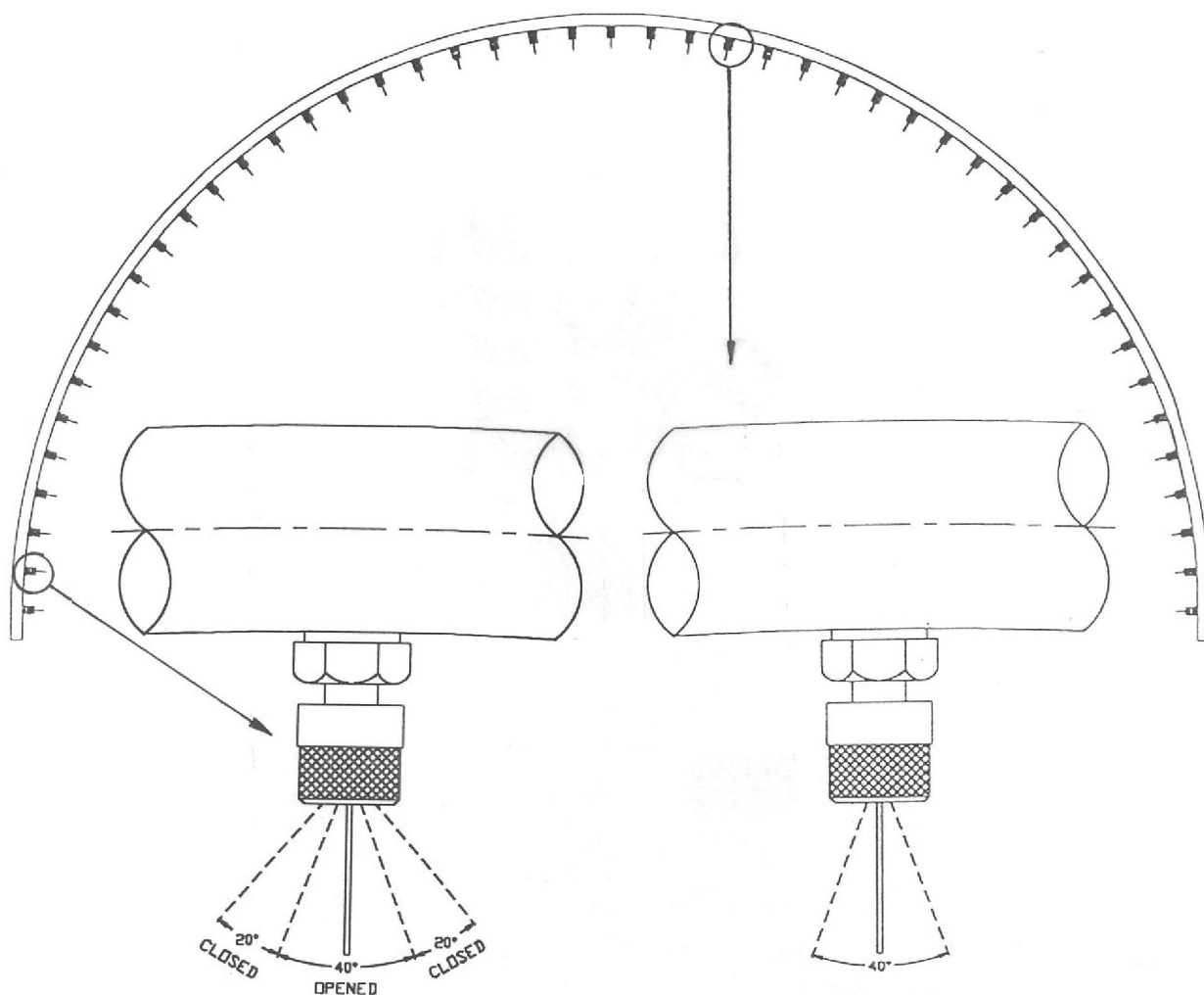
OTHER CONDITIONS

Warranty: 2 years

Support by E-mail: support@testing.si

On line Skype VIDEO support: Testing_support, matejsimonic

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T1-26, T1-27, T1-28, T1-29, T1-30, T1-71, T1-72, T1-73

OSCILLATING TUBE

KEYWORDS

T1-26, T1-27, T1-28, T1-29, T1-30, T1-71, T1-72, T1-73, OSCILLATING TUBE, IEC 60529, IEC 60335-1, ...

COMPLIANCE

T1-26, T1-27, T1-28, T1-29, T1-30, T1-71, T1-72, T1-73, OSCILLATING TUBES are designed and manufactured in compliance with many different standards (e.g. IEC 60529 fig. 4, IEC 60335-1, ...)

DESCRIPTION

Oscillating tubes are intended for determining the degree of protection against ingress of water (IPX3 and IPX4).

Oscillating tubes are made of stainless steel tubes, that are bent in a shape of semicircles with radii that are prescribed with IEC standards. We manufacture following dimensions $r=200, 400, 600, 800, 1000, 1200, 1400$ and 1600 mm (DIA. $400, 800, 1200, 1600, 2000, 2400, 2800, 3200$ mm) or others on special request. Inside these tubes are located 50 mm spaced nozzles $\varnothing 0,4/0,9$ that enable centering of jets and also shutting-off the flow of water for each nozzle separately. These nozzles enable centering of out-coming jets and its shutting off, when the spraying angle should be limited to $\square 60^\circ$. Nozzles are screwed in the tube and can be replaced (obstruction or damage) and/or cleaned. Number of nozzles for each oscillating tube is given in the table below.

CAT. NO.	NO. OF NOZZLES	RADIUS OF TUBE
T1-26	13	200 mm
T1-27	25	400 mm
T1-28	37	600 mm
T1-29	51	800 mm
T1-30	63	1000 mm
T1-71	75	1200 mm
T1-72	87	1400 mm
T1-73	101	1600 mm

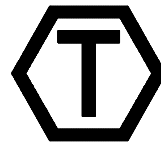
OTHER CONDITIONS

Warranty: 2 years

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T1-25

TURNTABLE

KEYWORDS

TURNTABLE, IEC 60529, 60335-1, IPX1, IPX2, EN ,GB.

COMPLIANCE

T1-25 TURNTABLE is designed and manufactured in compliance with IEC 60529,...

INTRODUCTION

T1-25 TURNTABLE is intended for determining the degree of protection, against ingress of water, IPX1 and IPX2. TURNTABLE is apparatus that is intended for rotating the sample, in different kinds of water tests.

DESCRIPTION

The apparatus consists of framework made of stainless rectangular tubes, sample carrying plate made of water resistant plywood and its electromotor drive with reduction gear. The apparatus is equipped with four swivel rollers with breaks on bottom side and with for upper plate carrying rollers.

All components are made of not rusting or galvanically protected materials.

Electromotor is supplied with 36 V DC through electronic controller and separating transformer.

Electric circuit and protective transformer are located in water proof plastic casing that should be mounted on a wall. On the front plate of this control unit are located mains switch, mains signal lamp, START push button, STOP push button, connector for connection to external remote controlling of rotating, knob for rotating speed regulation, and switch for selecting of circular or swivel mode of operation. Swivel mode (reverse of direction after each 350°) should be used when tested sample must be power supplied during the test.

It is also equipped with connector that enables this apparatus to be controlled by WATER SUPPLY UNIT FOR DRIP BOX or by MOTOR DRIVE FOR SPRAY APPARATUS (R max. 1000) so that it automatically stops rotating after the test is finished.

Sample carrying plate is so designed that telescope support T1-35 can be put on it.

DESIGN

Basic framework is made of stainless steel sectional AISI 304 (DIN W. No. 1.4301 X5CrNi18-10) http://en.wikipedia.org/wiki/Stainless_steel. Upper plate is made of water resistant resin bonded cellulose laminate.

TECHNICAL SPECIFICATION

Line voltage	230 V, 50 Hz (other optional)
Power consumption	cca. 270 VA
Separating transformer protective	220/42/24 V, 250 VA
Motor	0-36 V DC
Operating modes	circular, swiveling
Carrying capacity	200 kg
Dimensions	
Sample carrying plate diameter	1000 mm
Height	250 mm

OTHER CONDITIONS

Warranty: 2 years

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T1-35

TELESCOPE SUPPORT

KEYWORDS

TELESCOPE SUPPORT, IEC 60529, ...

COMPLIANCE

T1-35 TELESCOPE SUPPORT is designed and manufactured in compliance with IEC 60529 and many other standards.

http://webstore.iec.ch/preview/info_iec60529%7Bed2.1%7Db.pdf

DESCRIPTION

TELESCOPE SUPPORT T1-35 is the support on which the sample can be placed during different kinds of water tests. It should be used when it is requested by standard that the support under the sample should be smaller than the base of tested sample.

The apparatus consists of 3 legs, 3 telescopic, stainless steel tubes with handle screws for adjusting required height, sample carrying grid 270 x 180 mm.

Telescope support can be positioned on the sample carrying plate of turntable or can be also used independently.

DESIGN

All parts are galvanically protected, or stainless steel.

TECHNICAL SPECIFICATION

Dimensions

height is adjustable	600 - 1200 mm
Sample carrying plate	270 x 180 mm.

Carrying capacity	max. 50 kg
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OTHER CONDITIONS

Warranty: 2 years

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