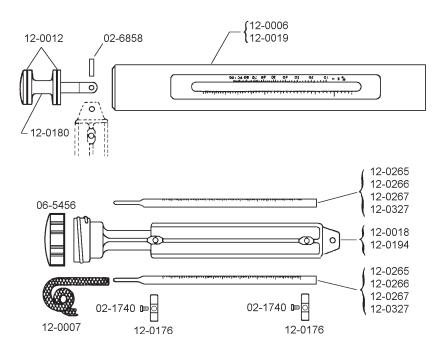
PARTS LIST

Part No.	Description		Qty. per Assembly			
	0012-7	011	0012-7012	0012-7013	0012-7043	
0012-0180 Plug and Swivel Assembly 1		1	1	1		
0012-0176 Thermometer Clip2		2	2	2		
0012-0007 Wick1		1	1	1		
0002-1740 Screw		2	2	2		
0002-6858 Roll Pin1		1	1	1		
0006-5456 Cap1		1	1	1		
0012-0012 Fri	ction Ring	2	2	2	2	
0012-0194 Body (°F)1		1	-	-		
	dy (°C)		-	1	1	
	be (°F)		1	-	-	
0012-0019 Tu	be (°C)		-	1	1	
0012-0267 Thermometer, 30 to 110°F, Mercury 2		-	-	-		
0012-0266 Thermometer, 30 to 110°F, Red Spirit -		2	-	-		
0012-0265 Thermometer, -5 to 50 °C, Mercury		-	2	-		
0012-0327 Th	ermometer, –5 to 50°C, Red Spirit	i	-	-	2	

Accessories





INSTRUCTION 0012-9015 SLING PSYCHROMETER

Part Numbers:

0012-7011 30° to 110°F
0012-7013 -5° to 50°C
0012-7012 30° to 110°F
0012-7043 -5° to 50°C

Mercury Thermometer
Red Spirit Thermometer
Red Spirit Thermometer



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4 Instruction 0012-9015

1 Remove cap; immerse end of body to saturate wick.

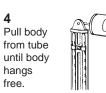


Fill psychrometer reservoir with water. Replace cap.

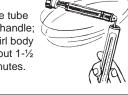


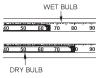
(B)

3 Be sure wick covers "wet" bulb (the other bulb is dry).

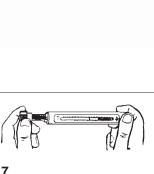


5 Use tube as handle; whirl body about 1-1/2 minutes.

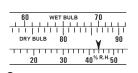




Read wet & dry bulb thermometers; replace body in



Set thermometer readings on upper two calculator scales



Read % relative humidity as indicated by arrow.

OPERATION

Before Using:

WICK (A) should be thoroughly saturated with water. Remove END CAP (B) and immerse PSYCHROMETER BODY (C) up to mercury (or red spirit) reservoir on the thermometers until WICK is thoroughly wetted. Fill END CAP with water and replace; tighten just enough to prevent leakage.

To Use:

- 1. Be sure WICK (A) is wet and covers mercury (or red spirit) reservoir on WET BULB THERMOMETER (D). Be sure reservoir on other THERMOMETER (F) is dry.
- 2. Pull TUBE (E) clear of BODY so BODY can swivel.

- 3. Holding TUBE, whirl body two to three revolutions per second (120 to 180 RPM).
- 4. Continue whirling until temperatures stabilize (1-1/2 minutes is usually ample).
- 5. Immediately read WET BULB THER-MOMETER (D) and then DRY BULB THERMOMETER (F). (See application instructions.)
- 6. Set wet and dry bulb temperatures opposite each other on side rule type calculator scales, sliding BODY into TUBE as required.
- 7. Read % R.H. (percent relative humidity) indicated by arrowhead on lower scale.

APPLICATION

Wet-bulb temperatures should be read first and as quickly as possible for highest accuracy. Delay in reading may cause error. In addition, the wick must be kept clean, saturated with water, and whirled long enough to stabilize temperatures.

The range of the psychrometer is from 10% to 100% R.H., for dry-bulb temperatures of 30° to 100°F (-5° to 50°C).

In addition to the above instructions, barometric pressure and other factors will influence exact relative humidity determinations to a very minor degree. For precise work, use a psychrometric chart or set of tables such as W.B. No. 235 "Psychrometric Tables for Obtaining the Vapor Pressure, Relative Humidity, and Temperature of Dew Point," which can be purchased from the Superintendent of Documents, United States Government Printing Office, Washington, D.C. The accuracy of the Psychrometer, however, is satisfactory for all except the most exacting work.

MAINTENANCE

WICK (A) should be kept clean; when dirty, cut off WICK below WET BULB THER-MOMETER (D) and pull clean section out of END CAP (B) and slide over bulb on WET BULB THERMOMETER.

A WICK REPLACEMENT KIT may be purchased separately (refer to parts list). One or two extra WICKS may be kept in END CAP and will help retain moisture longer. Pack WICKS loosely to allow thorough water

saturation and ample water supply to the WET BULB THERMOMETER.

THERMOMETERS (D) and (F) are replaceable by backing off SCREWS (G) and loosening THERMOMETER CLIPS (H). To separate BODY (C) and TUBE (E), drive ROLL PIN (I) out of eye in PLUG AND SWIVEL ASSEMBLY, which then may be slid out back end of TUBE.