

According to Assmann



Measure of the elements...

is the Lambrecht-Psychrometer as reference for other humidity measuring instruments. It is especially designed for scientific demands. Through the measured temperatures and in connection with air pressure, as with instrument 706, different parameters are determined and additionally checked.

- ▶ standard instrument with reference quality
- ▶ most precise, reliable, long-time stable
- ▶ life-long guarantee* on thermometer function
- ▶ high resolution
- ▶ double wall thermometer protection tube for minimal radiation influence
- ▶ transportation case for mobility

Reference instrument for HVAC construction and in calibration laboratories • testing apparatus for laboratorial application

*except glass breakage



Professional Line

(761) Aspiration Psychrometer according to Assmann

Measuring elements:
Meas.-/ Application range:
Accuracy:
Resolution/ Scale:
Housing/ Dimensions:

Weight:
Included in delivery:

precision thermometer acc. to DIN 58 661
-5...+60 °C • -30...+40 °C depending on type
± 0.2 °C within the total range • ± 0.1 °C within any scale section of 10 °C
≤ 0.2 °C/ 0.2 °C
chromium-plated protection pipes • otherwise lacquer RAL 9010 (clean-white)
420 x 90 mm • carrying case 420 x 285 x 100 mm
device approx. 1.2 kg • carrying case with contents approx. 2.7 kg
humidifying equipment • 0.5 m of spare wick • test certificate
psychrometric table (771 b) • carrying case

Option:

thermometers available with DAkkS calibration certificate (on request)

Versions:

00.07610.000 010

(761) Measuring-/ Application range -5...+60 °C

00.07610.000 020

(761) Measuring-/ Application range -30...+40 °C

The knack of ...

mobile and indirect humidity measurement has the handy instrument. The radiation protected casing contains two liquid thermometers.

Dry and humid temperature are measured, then manual aspiration is achieved by whirling the instrument.

The graphical psychrometer-table makes the easy determination of relative humidity possible (additional tables on request).

- ▶ small, light, handy
- ▶ easy handling
- ▶ inexpensive and always ready for use
- ▶ life-long guarantee* on thermometer function

expeditions • navigation •
building services • industrial
safety and health standards



*except glass breakage

Professional Line	(740)	Whirling Psychrometer	Id-No. 00.07400.000 010
Measuring element:		liquid expansion thermometer	
Meas.-/ Application range:		-10...+60 °C	
Accuracy:		± 0.2 °C within the total range • ± 0.1 °C within any scale section of 10 °C	
Resolution/ Scale:		≤ 0.2 °C/ 0.2 °C	
Housing/ Dimensions:		RAL 9010 (clean-white) • 305 x 60 x 22 mm with folded handle	
Weight:		approx. 0.6 kg	
Included in delivery:		psychrometric table (771 b) • 1 moistening tube • 0.5 m of spare wick • in leather case	
Options:		thermometers available in -30...+40 °C • thermometers available with DAkKS calibration certificate (on request)	

for LAMBRECHT Humidity Measuring Instruments

Id-No.	Code	Spare Thermometer
33.02020.008 000	(202-8)	for Polymer (202)
32.07060.006 050	(706 U6)	for (706) Psychrometer Thermometer -30...+50 °C · div. 0.2 °C · L 370 mm · Ø 15 mm · approx. 0.06 kg
32.10520.001 020	(1052 U1b)	for Psychrometer (706) and Extreme Thermometer (1052): Maximum Thermometer -30...+50 °C · div. 0.5 °C · L 290 mm · Ø 18 mm · 0.06 kg
32.10520.001 050	(1052 U1e)	for Psychrometer (706) and Extreme Thermometer (1052): Maximum Thermometer -30...+50 °C · div. 0.2 °C · L 360 mm · Ø 18 mm
32.10520.002 020	(1052 U2b)	for Psychrometer (706) and Extreme Thermometer (1052): Minimum Thermometer -40...+40 °C · div. 0.5 °C · L 290 mm · Ø 18 mm · 0.06 kg
32.10520.002 050	(1052 U2e)	for Psychrometer (706) and Extreme Thermometer (1052): Minimum Thermometer -40...+40 °C · div. 0.2 °C · L 360 mm · Ø 18 mm
32.07400.003 010	(740 U3a)	for Whirling Psychrometer (740) -10...+60 °C · div. 0.2 °C · L 295 mm · Ø 9 mm · approx. 0.03 kg
32.07610.003 010	(761 U3a)	for Aspiration Psychrometer (761) -5...+60 °C · div. 0.2 °C · L 280 mm · Ø 8 mm · approx. 0.025 kg
32.07610.003 012	(761 U3a)	for Aspiration Psychrometer (761), with DAkkS test certificat -5...+60 °C · div. 0.2 °C · L 280 mm · Ø 8 mm · approx. 0.025 kg
32.07610.003 020	(761 U3b)	for Aspirations Psychrometer (761) -30...+40 °C · div. 0.2 °C · L 280 mm · Ø 8 mm · approx. 0.025 kg
32.07610.003 022	(761 U3b)	for Aspirations Psychrometer (761), with DAkkS test certificat -30...+40 °C · div. 0.2 °C · L 280 mm · Ø 8 mm · approx. 0.025 kg
Further Accessories		
00.07710.020 000	(771 b)	Psychrometer Table according to Bongards This graphic psychrometer table is used for simple determination of relative humidity (0...100 % r. h.). For that the measured temperatures and the psychrometric difference calculated for an air pressure of 1006.6 hPa are used. Each LAMBRECHT psychrometer is provided with the table (771b).
00.07680.030 000	(768 G)	Psychrometer Table according to Sonntag (DIN A4 folder) Calculating the humidity with the measurement values and the Sprung formula would require a lot of time. Therefore, numerical psychrometric tables are used for evaluation, without large time exposure, for humidity (10...100 % r. h.), dew point (-10...60 °C) and vapour pressure (0.5...190 hPa). Calculating tables with detailed instructions for the correction as well as evaluation are also available. In case of high-precision requirements, a pressure correction must be carried out whenever the deviation exceeds 20 hPa.
00.10960.000 000	(1096)	Large thermometer shelter for meteorological measuring instruments
32.07060.009 000	(706 U9)	Spring-driven aspirator for Psychrometer (706) and (761) · approx. 0.6 kg
32.07610.009 000	(761 U9)	Wind shield · white · weight approx. 0.2 kg
32.07610.020 000	(761 U20)	Handle · black · weight approx. 0.2 kg
33.08000.150 000	(800-150)	Protection tube for sensors
Sensor accessories		
00.08140.600 000		Sensor shelter · 11 lamellas · natural ventilation of the sensors
00.08141.600 004		Sensor shelter · 15 lamellas · artificial ventilation
00.08141.620 000		Sensor shelter · 11 lamellas · professional use, e.g. naval applications