

YOUR QUALITY TESTING CHOICE

Blaine Apparatus Series – Manual and Fully-Automatic Digital Options

Description:

The Blaine Apparatus is used to determine the fineness of cement (and other powdery products) in terms of specific surface in cm2g-1, according to test standard EN 196-6 and ASTM C204.

The unit comes equipped with **Color LCD 7**" **touch screen** interface for data introduction and test results. The automatic flow regulation of compressor allows the system to **operate in any atmospheric pressure conditions**. The system is designed to eliminate all human error factors. The system offers a detachable protective screen, made in polycarbonate, with stainless steel frame.

Features:

- Time resolution: 0.01 s.
- Temperature resolution: 0.1°C.
- 4 LED photodiodes for an accurate liquid detection and level adjustment.
- Back-light for visual monitoring.
- Real time displaying of temperature, constant K, passing time and other parameters.
- Up to 5 reference cements as standards in each testing methods EN 196-6 or ASTM C 204.
- Up to 20 different types of cement can be memorized.
- Up to 1000 complete data test can be memorized in a nonvolatile memory.
- USB 2.0 communication for memorized data export i.e. to Excel.
- Multilanguage: English, Spanish or French (others on demand).

Specifications

Power supply: Single-phase 110-240 V + Ground ~ 50 / 60 Hz Power consumption: < 15 W Dimensions: 270 x 400 x 410 (h) mm Weight approx: 13.5 kg

Standard Configurations

Blaine cell made in stainless steel, with plunger and perforated disc. Comprising certification of the volume of the Blaine cell. Performed with instruments traceable to international standards.

Free Extras Include:

- Software pack WinPerm64, for Windows
- Personal Computer
- Extended Warranty (2 years guarantee in total) Covering: defective parts substitution and labour
- Calibration with NIST standard Portland cement and certificate issued by our calibration laboratory.







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Technical Specifications:

-	Automatic Blaine Apparatus System
Screen	Color LCD 5,7" touch screen
	Precision photodiodes for detecting upper and lower levels and additional safety level
Level detectors	detector. To in-crease accuracy, comprises backlight in red by means of a LED.
Time resolution	0.01 s
Isolation	Detachable protective screen, made in polycarbonate, with stainless steel frame
Temperature	0.1 °C
resolution	0.1 C
Manometric	Light mineral oil with optimal viscosity. Non-toxic (safety datasheet is comprised)
liquid	
Rise of fluid	Automatic compression pump
	Compression avoids the risk of liquid get into the pump
	On-screen wizard to perform the tests, including specific protocols for conducting the
Predefined	test according to EN 196-6 or ASTM C 204.
testing methods	The wizard calculates automatically the weight of cement to test according to the
	measured density, desired porosity and verified volume (cement bed) of the Blaine cell.
Test	Real time displaying of temperature, constant K, passing time and other parameters
development	
Calibration	Up to 5 reference cements as standards in each testing methods EN 196-6 or ASTM C
standards	204
Cement types	Up to 20 different types of cement can be memorized. (more cements on request)
	Independent calculation methods for each cement type
Blaine cells	Up to 5 Blaine cells can be selected for calculations.
	User can change and memorize the cement bed volume of all his Blaine cells
Test data storage	Up to 1000 complete data test can be memorized in a non-volatile memory. When 1000 tests are performed, the equipment shows a calibration advice warning.
PC link	USB 2.0 output. Allows to export the memorized data to a Windows Excel file.
Selectable	
Languages	Spanish, English and French (others on request)
Weight	30 lbs / 13.5 kg
Dimensions	10.6 x 15.75 x 16.15" / 270 x 400 x 410 mm (width x depth x height)
Power supply	115V / 60 Hz / 1Ph or 230V / 50 Hz / 1 Ph
	The computer displays a warning if the temperature measured by the probe is outside
	the range imposed by the Testing Standard.
Visual alarms	The temperature sensor is adjustable to match with an external certified thermometer.
	(requires pas-sword)

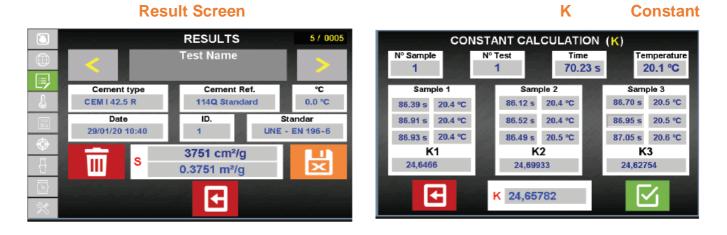




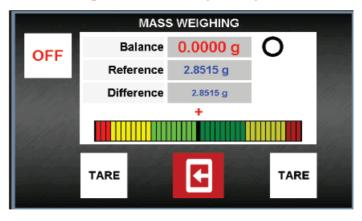
Advance Software for Automatic Blaine Apparatus with Intuitive Interface

The BlaineGen Plus incorporates an updated interface which provides the user with an improved experience and the following benefits:

- **Simplicity and intuitivity**, thanks to the new design of the buttons and menus which provides the user a faster operation and quick access to all functions.
- Modern design, ergonomic and attractive.
- Display of menus and results, thanks to the new 7" screen with dust and splash resistance.



Direct Reading of the Mass by Analytical Balance





Minimum Computer Requirements:

Dual core processor: 2,00 GHz RAM Memory: 4 GB Hard Disk: 75 GB Windows 10 USB 2.0 ports 1x Ethernet port (if the computer is going to be network connected)

Software Benefits

This software automates the acquisition of data from tests stored in the Automatic Blaine System, management of database thereof and reporting with data obtained from them.

- Easy acquisition of results and test parameters.
- Unlimited results storage.
- Friendly test management: user can filter and categorize according to user criteria.
- Automatic report generation (i.e. .pdf or printing formats).
- Possibility of communication with other commercial applications and laboratory management tools.

Acquisition and Performance Management

WinPerm64 software application shows clearly and simply all sample information and the results of each test.

	Test name (6)	CRITEST 4	Cement	under heet			The balance	Perce can											
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	Standard UK	C - DN 196-6		Test portety	0.5	m*		1	ed porcely	66	an ²								
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٥þ	UNC - DI 196-6	IDENTEST 1	Moine 1	34/11/2028	3.15	15	1	1,0105	38125	100	74,205	18.0	3617	3862	3814	76.17	34.81	73.55	14.2
٦h	UNC - EN TRUG .	CEPTEST 2	Moine 1	2411/2029	3.15	1.9	1	1,8105	3805.25	12	74,0000	17.6	3808	3810	3809	73.72	34.35	72.51	34.3
٦h	UNE - D1 1966	GERTEST 2	Maina 1	2411.0025	2.15	1.5	1	1,8105	3007.25	1	74.0075	-0.5	3906	3812	3909	72.57	73.99	74.94	74.2
	UNE - EN 196-6		Moine 1							1									
	UNE-INTER-	BEPTERTS	Maine 1	3 811 0000	2.15	1.5		1,8109	3798.25	1	13.6225	17.4	3758	2797	3802	72.53	11.15	728	11.1
	UNC-D11946 .	REPTEST 4	Moino 1	2411.0025	2.15	1.5	1	1.8105	3797.5	12	79,295	17.5	3765	3766	3767	72.55	73.99	73.27	75.2
٦þ	UNC - EN 196-5	IDENTEST 7	Moins 1	2411/2029	0.15	1.5	1	1,8105	3185.25	100	73,2525	17.5	3181	3781	3784	73.18	78,25	73.35	78-3
	LINE - EN THERE .	HEPTERTS	Maine 1	3 811 0000	2.15	1.5	1	1.0108	3 758 75	12	73.365	17.8	3777	2794	1775	72.85	11.4	73.47	73.0
	UNC - D1 196-6	REPTEST 9	Moine 1	24011/0029	0.15	1.5	1	1,8105	3779.75	100	72,755	17.6	3785	3764	3790	79.20	75.67	72.14	72.5
٦ĥ	UNC - EN 196-5 .	ICENTEST 10	Moins 1	2411/2029	3.15	1.5	1	1,8105	3450.5	R	75.1675	17.6	3154	3767	3179	73.85	78.16	72.18	78.3
٦h	UNE - EN 196-0	INFERTING IN	Miles 1	318111/00095	3.15	1.5	1	1,8105	\$772.76		79.81	17.6	37%	3769	\$7%	72.78	72.94	218	72.4
٦þ	UNC - DI 1944	INSPITEST 12	Hoing 1	2411.0025	2.15	1.5	1	1,8105	3190.75	R	72.13	17.6	3752	3764	151	71.42	73.17	72.12	71.9
٦h	UNC - 51 196-5	REPITEST 15	Moine 1	2411/2029	3.15	1.5	1	1,8105	3715.75	1	70,0575	14.5	3111	3734	3718	79.29	68.63	78.25	702
-14	UNE - D1 196-6 .	IDEPTEST 14	Maina 1	3411.0025	2.15	1.5	1	1.8105	37396.75	1	70.465	14.5	3729	3726	3729	72.45	7042	78.4	705
		IDEPTICIST 15	Million 1	2411/2029	0.15	1.5		1,8705	3738.5	12	70.5775	18,1	3141	3734	3740	79.57	71.03	78.72	307

Data of samples

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]h. u	NC - DN 196-5	ICENTEST I	I Moine 1	34/11/2020	1 3.15	1.5	1	1,8165	3812.5	100	74,205	18.0	3617	3862	3814	78.17	74.61	73.55	14.2
12.0	NC - EN 1865	CENTEST #	C Moine 1	2411/202	0.15	1.5	1	1,8105	3805.25	12	74 (202)	17.6	3808	3810	3809	73.72	34.35	73.91	14.3
1.0	NE - D1 196-6	INCOMESTIC:	Moine 1	3411.002	9.15	1.5	- 1	1.8105	3007.25	100	74.0075	-0.5	3906	3812	3909	79.97	73.99	74.14	34.5
1000	NE - EN 1966	BBN155T	K Moine 1	2411/202	3.15	1.5	1	108	3807.5	2	78,075	17.5	3400	2012	3000	74	73.47	74.18	14.1
J 1. U	NE - 175 T10-0	- INFITUATION	1 Maine 1	3 8 11 0 0 0	2.15	1.5	1	1.0109	3798.25		10.6225	12.4	3798	3791	3852	73.83	11.15	73.00	11.1
1.0	NE - D1 1966	INCOMESTICATION	i Moine 1	3411.002	2.15	1.5	1	1.8105	\$797.5	12	72,295	10.5	3789	3766	3767	73.55	72.99	73.27	71.5
] 1. V	NE - EN 196-5	CENTEST :	7 Moine 1	2411/202	0.15	1.5	1	1,8105	3186.25	100	75,2525	17.6	3161	3761	3384	73.18	78.25	73.35	78.3
1.0	NE - DIS TRADE	INSPITUAT OF	E Phine 1	3 811 000	2.15	1.5	1	1.0100	3758.75		70.565	17.8	3127	3794	170	72.88	11.4	73.67	
	NE - D1 196-6	GEALERI		2411.002		15	1	1.8405	3779.75		72.755	0.6	3785	3764	3790	73.23	75.67	72.14	72.5
	NE - EN 196-5	ICENTEST I		2411/202		1.5	1	1,8105	3750.5	15	75.1675	77.6	3754	2.61	3179	73.00	73.15		
	NE - B1 1966	INSECTION OF		31811.0025		1.5	1	1,8105	3712.75		72.51	- 17.6	37%	3709	3776	72.78	72.94	218	72.4
	NC - EN 196-5	ICENTEST I		3411.002			1	1,1165	3800.75		72.13	17.6	3902	3754	3961	71.42	73.17		
	NC - D1 196-5	IDENTEST I		2411/202		1.9	1	1,8106	3715.75		79,98/9	14.8	3111	3724	3118	79.29	68.63		702
	NE - EN 196-6	REPTEST		3411.002			1	1,8105	\$296.75		70.465	14.5	3239	3738	1236	72.45	70.42		
	NE - EN 196-5	INCOMPOSITION IN CONTRACT OF	Mains 1	2411/002	0.15	1.5	1	1,8305	3758.5	196	79,5775	8.1	3141	3734	3740	79.57	71.05	78.72	707

Results

Report Generation:

WinPerm64 enables the automatic generation of test reports and can be created from default templates (which vary depending on the standard) or through others that can be customized.





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Accessories and Spare Parts:

NG-BlaineSoft	BaineGen Plus Premium Software
	Allows Data Acquisition from BlaineGen Plus as well as Storage, Management and Reporting based on the Test Data. Minimum Requirements of the Customer Computer: Dual Core Processor: 2 GHz, RAM Memory: 2 GB, Hard Drive: 75 GB, Windows XP (service pack 3), Vista or Windows 7, USB 2.0 Port, 1x Ethernet Port (if the computer will be network connected)
NG-DM-A300- 3000	Electronic Solid Rubber & Plastic Densimeter Systems – Specific Gravity Tester
	Maximum Weight Range – 0.001 to 3000g Density Precision - 0.001g/cm ³ - 0.0002g/cm ³ Measurable Parameters - Density, Specific gravity, Mixing ratio, Volume Density range - >1 and <1 Value showed - Density, Volume, % Components: Germany and Japan Extended Warranty: 5-Year Total Extended Warranty
NG-210-104094	Set of 1 manometric Blaine tube, U shaped. Spare part for BlaineGen-Plus
NG-510-100015	Verification of volume of the Blaine cell Performed by Certified Metrology Laboratory.
NG-IMPSP	Compression pump, spare part for BlaineGen-Plus
NG-210-101160	Reference Portland Cement. Standard Material Reference 46H. Box of 10 units With known specific surface, allows to calibrate the Blaine apparatus. Includes NIST certificate.
NG-210-100464	Filter paper discs. Ø 12,7 mm. For Blaine. Box of 1000.
NG-210-100154	Manometric liquid. 100 ml flask.

Lead Time

3-8 Weeks Depending on when the PO is placed

Model

Model	Description
BlaineGen-Man	Manual Blaine Apparatus According to ASTM C204 and EN 196-6.
BlaineGen-Plus	Fully Automatic Blaine Apparatus According to ASTM C204 and EN 196-6
	 Free Extras Include: Software pack WinPerm64, for Windows Personal Computer Extended Warranty (2 years guarantee in total) Covering: defective parts substitution and labour Calibration with NIST standard Portland cement and certificate issued by our calibration laboratory.

* Request a <u>formal quotation</u> or send an e-mail to <u>sales@nextgentest.com</u> for the most up-to-date pricing and applicable discounts and incentives

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