

DATA SHEET

Large Size Pycnometers - Rice Test



75-D1122 with de-airing vacuum system, including vacuum pump 86-D2003, Air drying unit 86-D2005 filled with 86-D0819 Silica gel dessicant, and two rubber tubes 86-D2064.

General description

Used for determining the theoretical maximum specific gravity of uncompacted bituminous paving mixtures. They can also be used for the calculation of the percent of air voids in compacted bituminous mixtures and the amount of bitumen absorbed by the aggregates.

We propose three models:

- 75-D1122, heavy duty version, 10000 ml cap., specially designed for this application, made from robust transparent plastic and fit with vacuum gauge, coupling for vacuum application and vent valve. Suitable for paving mixtures samples of max. 6000 g, with maximum aggregate size of 50 mm (2").
- 75-D1123/C, aluminium canister 4500 ml cap., with transparent lid, fit with vacuum gauge, coupling for vacuum application and vent valve. Suitable for paving mixture sample of max. 2000 g, with max. aggregate size of 19.1 mm (¾").
- 75-D1123/D, 10000 ml cap., made from plastic with transparent cover, fit with vacuum gauge, coupling for vacuum application and vent valve. Suitable for paving mixtures sample of max. 6000 g, with max. aggregate size of 50 mm (2").

All the above vacuum pycnometers have to be shaken gently for the evacuation of air by the 15-D0407/B vibro-deaerator with his clamping device 15-D407/B1.

The complete set includes the vacuum pump with de-airing system. See accessories and Vacuum pumps.

Standards

- ASTM D2041
- EN 12697-5
- AASHTO T209

Specifications

Vacuum pycnometers

Models	75-D1122	75-D1123/C	75-D1123/D
Capacity, ml	10000	4500	10000

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Max. sample weight, g	6000	2000	6000
Max. aggregate size, (2")	50 mm	19.1 mm (¾")	50 mm (2")
Internal dimensions Dia. x h approx.: mm	280x186	191x152	273x337
Overall dimensions: Dia. x h, approx.: mm	300x450	200x160	300x360
Weight, approx.: kg	6.7	3	5

Electromagnetic vibro-deaerator 15-D0407/B
Device for clamping pycnometers 15-D0407/B1

Complete with timer

Power: 400 W

Overall approx. dimensions (wxdxh): 496x406x600 mm

Weight approx.: 30 kg



75-D1123/C



De-airing agitation device including vacuum pycnometer 75-D1122,
electro-magnetic vibro-deaerator 15-D0407/B and

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De-airing agitation device including vacuum pyknometer 75-D1123/D and electro-magnetic vibro-deareator 15-D0407/C and his device for clamping pyknometers 15-D0407/B1



Vacuum pyknometer 10000ml capacity 75-D1123/D

Products

15-D0407/B

Electromagnetic sieve shaker for sieves up to 315 mm dia. 230V, 50-60Hz, 1ph.

15-D0407/BZ

Electromagnetic sieve shaker for sieves up to 315 mm dia. 110V, 60Hz, 1ph.

15-D0407/B1

Device for clamping pyknometers to the electromagnetic vibro-deaerator

75-D1122

Large size vacuum pycnometer. (Yale pycnometer)

75-D1123/C

Vacuum pyknometer 4500ml capacity, aluminium

75-D1123/D

Vacuum pyknometer 10000 ml capacity

Accessories and consumables

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86-D2005

Air drying unit. For use with Silica gel with indicator, 86-D0819

86-D2064

Rubber tube dia 6.5 x 16.5 mm 2 m long, for vacuum pumps

86-D2003

Two stage portable vacuum pump , ultimate vacuum 0,01 mbar, free air displacement 75 l/min. 230V/50-60Hz/1ph

86-D2003/Z

Two stage portable vacuum pump , ultimate vacuum 0,01 mbar, free air displacement 75 l/min. 110V/60Hz/1ph

86-D0819

Silica gel with indicator. 1000 g