

The iFOAM Laboratory Foam Bitumen Plant is designed to be professional equipment as a true representation of "Asphalt Foaming", a professional-grade equipment for indoor study of foamed asphalt.

iFOAM supported use of the mixer can be used for cold mix materials, but also for hot mix (warm mix) materials.

The patented foamed bitumen generator, core component of iFOAM has a function of secondary foaming, the rationally design makes the mixing of asphalt and water more evenly, so as to the asphalt foaming process more fully and foaming effect more better. In addition, an increase of some regulatory function is used to optimize the foaming properties of asphalt.

iFoam asphalt tank comes with an agitator, to ensure consistent temperature of asphalt tank from top to bottom. iFoam asphalt tank ergonomic height above ground makes the dumping asphalt work more convenient and safe.

All iFoam bitumen pipes have heat insulation function, to avoid clogging the asphalt, eliminating lines clean.

For high-quality base layers from cold mixes

LM30 Laboratory mixer for the production of cold mixes, a perfect match for the Laboratory Foam Bitumen Plant.

Direct injection of the foamed bitumen into the mixing chamber of the laboratory mixer enables mixes to be processed to specification and test specimens to be produced. The twin-shaft compulsory mixer is not only ideally tailored to the laboratory plant in terms of performance and design, however, but is also connected to the plant's power supply. The high mixing intensity matches that of continuous mixers used on the construction site.

The LM30 has a capacity of approx. 30kg, and additionally offers variable settings for speed and mixing time. The mixing chamber is simply pivoted downwards about 180 ° and the cover opened to allow discharge of the mix.

And what's more: when used separately, the LM30 is suitable for most diverse mix proportions.

One-to-one simulation of the cold recycling process in the lab

Foamed bitumen is used to an ever-increasing degree as a binding agent in economical cold recycling. Preliminary testing with the mobile laboratory-scale plant enables the foamed bitumen quality to be precisely determined in the lab even prior to the start of construction. Extremely simple handling permits different parameters, such as water quantity, pressure and temperature, to be varied quickly, and different types of foamed bitumen to be produced within a short period of time. Based on the results achieved, the laboratory mixer can then be used to determine the mix proportion and to define the optimum bitumen foam for production of the test specimen.



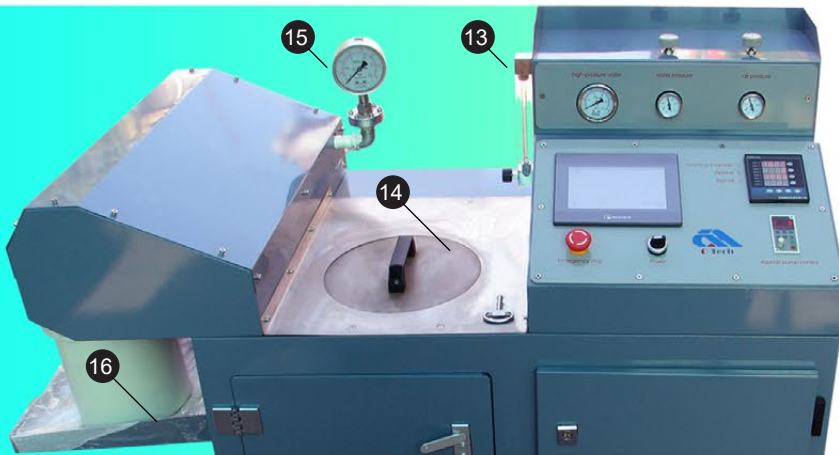
TECHNICAL SPECIFICATIONS

Water consumption	Min: 2.5L/Hour; Max: 6.0L/Hour
Air consumption	Min: 0L/Hour Max: 100L/Hour
Max bitumen pump pressure	2.5Mpa
Max water pressure	0.6Mpa
Air pressure	Min: 0.4Mpa; Max: 0.6Mpa
Water Temperature	Min: 10°C; Max: 60°C
Bitumen temperature	Min: 140°C; Max: 200°C
Bitumen tank volume	12.5L
Power supply voltage	220V
Water tank volume	6L
Air chamber Volume	6L
Rated power	Bitumen pump: 1.5kW Heaters: 3.2kW; Control: 0.1kW
Bitumen pump speed	Min: 1Hz; Max: 60Hz
Power supply voltage	220V
Asphalt foam spraying time can be set	0.1-999S
Dimension (length*width*height)	1261x670x1200mm



CONFIGURATION

- 1 Air pressure adjusting valve
- 2 Water pressure adjusting valve
- 3 Air pressure gauge
- 4 Temperature controller
- 5 Frequency converter
- 6 Water pressure gauge
- 7 High pressure water pressure gauge
- 8 Touch screen
- 9 Emergency stop for asphalt pump
- 10 Switch
- 11 Water filling nozzle (ball valve)
- 12 Air inlet
- 13 Water flow meter
- 14 Asphalt tank cover
- 15 Pressure gauge of asphalt pump
- 16 Asphalt bucket support board
- 17 Content gauge



Internal part of LM30 mixer

