

BOARD OF
BUILDING AND SAFETY
COMMISSIONERS

VAN AMBATIELOS
PRESIDENT

E. FELICIA BRANNON
VICE PRESIDENT

JOSELYN GEAGA-ROSENTHAL
GEORGE HOVAGUIMIAN
JAVIER NUNEZ

CITY OF LOS ANGELES

CALIFORNIA



ERIC GARCETTI
MAYOR

DEPARTMENT OF
BUILDING AND SAFETY
201 NORTH FIGUEROA STREET
LOS ANGELES, CA 90012

FRANK M. BUSH
GENERAL MANAGER
SUPERINTENDENT OF BUILDING

OSAMA YOUNAN, P.E.
EXECUTIVE OFFICER

May 24, 2017

Chris Levins
Jay R. Smith Mfg. Co.
2781 Gunter Park Drive East
Montgomery, AL 36109

RESEARCH REPORT: RR 5549
EFFECTIVE DATE: 06/01/2017
EXPIRATION DATE: 06/01/2018
Telephone: 800-467-6484

GENERAL APPROVAL -Renewal- "Ultracept" oil separators manufactured by Jay R. Smith Company. See attached sheet for the list of approved models.

DETAILS

These products are oil separators designed for use in service stations and industrial plants to collect oil and discharge the oil free waste water. They are made of welded stainless steel, mild steel or fiberglass. Internal piping is PVC. Various sizes are available for flow rates from 1 to 45 GPM.

The oil separator separates the oil from the water by a multistage gravity separation process and stores it in an integral storage tank or discharges it to a separate storage tank. The oil separation process requires that the flow of waste water through the oil separator be a constant unchanging flow rate. To achieve a constant flow rate, the oil separator utilizes a surge tank and a sump pump to collect the oily waste water. The surge pit is also used to collect and filter out solids. A sump pump draws out the liquid waste and discharges it to the oil separator. A gate valve in the discharge line is required and used to adjust the flow to the critical flow rate. The oil free waste water is discharged by gravity to the sewer. Part of the water from the oil separator is recirculated back to the surge pit. The collected oil is stored for separate waste removal.

The approval is subject to the following conditions:

1. Oil Separators:
 - a. These products may be installed for commercial use only as oil interceptors. Installation shall be in accordance with Section 94.1017.0 of the Los Angeles Plumbing Code (LAPC), 2017 Edition, the manufacturer's printed instructions and this report.
 - b. These units shall be installed above ground. Stainless steel and mild steel units may be installed inside and outside of buildings. Fiberglass units may be installed outside of buildings and inside buildings where combustible construction is allowed.

RR 5549
Page 1 of 4

Jay R. Smith
RE: Oil Separator

- c. These units shall be sized in accordance with the requirements of the fixtures discharging into them. Size selection and capacity of surge tank shall be in accordance with the manufacturer's printed instructions and the Los Angeles Plumbing Code, 2017 Edition.
- d. After oil separation, the oil free waste water shall discharge by gravity to the sewer through an approved backwater valve and the piping shall be properly vented and trapped.
- e. Fitting(s) shall not be installed on the waste discharge connection that raise the height of the discharge above the point of connection on the oil separator.
- f. The oil collected from these units shall be collected in an approved storage tank and shall be disposed of in an approved manner acceptable to the Department of Public Works.
- g. The return line from the oil separator shall discharge above the water level in the surge tank.
- h. Units shall be properly vented. Vent sizing shall be based on 2 fixture units per GPM per Section 94.703.2, shall be determined from Table 703.2 of the Los Angeles Plumbing Code, 2017 Edition and shall be not less than 1 1/2 inches.

2. Surge Tank:

- a. The surge tank shall be constructed with approved materials. Factory constructed models shall be approved by a testing and listing agency (i.e. IAPMO) recognized by the City of Los Angeles.
- b. The size of the surge tank shall be not less than the size recommended by the oil separator manufacturer's printed installation instructions.
- c. Fixtures discharging into the surge tank shall be vented and trapped.
- d. A simplex type sump pump system (one pump) shall be required. Pump suction inlet shall be a minimum 12 inches above the bottom of the surge tank, shall be adequately sized and shall be not less than 2 inch pipe size.
- e. The surge pit shall be vented with an adequately sized vent not less than 1 1/2 inches and shall not discharge less than 10 feet above grade.
- f. A gate and a check valve shall be installed on the discharge of each sump pump in an accessible location and outside the surge tank.

3. These products shall be installed using approved pipe materials.

4. An industrial waste permit shall be required by Industrial Waste Management Division (telephone 323-342-6200).

Jay R. Smith
RE: Oil Separator

5. The oil separator and the surge tank shall be readily accessible for servicing and maintaining the system in a working and operating condition.
6. These products shall be maintained in efficient operating condition by periodic removal of the accumulated oil and solids. The collected oil and solids shall not be disposed into any drainage piping or public or private sewer or storm drain.
7. These products shall be marked legibly with the manufacturer's name, trademark or logo and the appropriate model number where visible for inspection purposes.

DISCUSSION

A current production sample was tested and examined by the Mechanical Testing Laboratory. The material and construction are equivalent to that prescribed by the Los Angeles Municipal Code in quality, strength, effectiveness, durability and safety.

For this General Approval to be valid on any individual construction project in the City of Los Angeles, an engineer or inspector of the Department of Building and Safety must make a determination that all conditions of the General Approval required to provide equivalency have been met in the case of each construction project under consideration.

This approval is granted under Sections 94.301.0, 94.709.0, 94.710.0, 94.1001.0, 94.1002.0, 94.1009.0, 94.1011.0 and 94.1017.0 of the Los Angeles Plumbing Code (LAPC), 2017 Edition.

Approved by:



Victor Muro
Mechanical Testing Laboratory
Permit and Engineering Bureau

Jay R. Smith
RE: Oil Separator

**Jay R. Smith Mfg. Co.
RR-5549**

**Oil Separators
List of Approved Models**

Unit designation: 86 -AA -BB -C

NOTES:

86 is the product series

AA refers to capacity of unit in GPM as follows:

- 01 (1 GPM)
- 02 (2 GPM)
- 03 (3 GPM)
- 05 (5 GPM)
- 10 (10 GPM)
- 25 (25 GPM)
- 45 (45 GPM)

BB refers to the unit with or without an integral oil storage tank.

- 03 is without storage tank
- 04 is with storage tank

C refers to the construction material.

- F (fiberglass 3 and 5 GPM only)
- S (stainless steel)
- M (mild steel n/a with storage tank)

e.g. : Model -86-45-04-S is a stainless steel, 45 GPM unit with a storage tank.
