

<b>PORT SIZE :</b>	Inlet - 1/4-18 NPTF		
	Nozzle - 1/8-27 NPTF		
<b>FUEL:</b>	Waste Oil, No. 4 & Lighter Fuel Oil, B6-B20 (blends from 6% up to 20% biodiesel, per ASTM D396)		
<b>LIFT</b>	14' Maximum		
<b>OPERATIONAL VACUUM:</b>	20 in. Hg. Maximum - Waste Oil & Fuel Equivalent to No. 4 10 in. Hg. Maximum - No. 2 & Lighter Fuel Oil, B6-B20		
<b>SPEED (RPM):</b>	A2RA-7736-B 3450/1725	A2RA-7737-B 3450/1725	A1RA-7738-B 1725
<b>TRANSFER RATING (GPH @PSI):</b>	2.5 @110 / 2.5@30*	2.5 @20 / 2.5 @20	2.5 @105
<b>PRESSURE RANGE (PSI) REGULATOR</b>	100-150 /*	10-20 / 10-20	100-150
<b>FACTORY SET</b>	100 /*	10 / 10	100
<b>ACTUAL DELIVERY</b>	0-150 / 0-30+*	0-20 / 0-20	0-150
<b>CUT OFF FUNCTION NOZZLE PORT</b>	YES	NO	YES
<b>ALTERNATIVE NOZZLE PORT:</b>	NO	NO	NO

\* Use alternate nozzle port for 1725 RPM.

Actual pressure depends on discharge line restrictions but will not exceed 3450 RPM rating.

## INSTALLATION INSTRUCTIONS

### A. General:

Suntec's Model A2RA-7736 transfer pump should be installed in accordance with the National Board of Fire Underwriter's requirements and local ordinances where applicable.

#### **⚠️WARNING:**

Different aspects of the oil fired heating system can be affected by the use of a fuel/biodiesel blend (storage, piping system between the tank and the burner, burner components).

These units are designed to handle B6 to B20 biodiesel blends (fuel oil according to ASTM D396 with 6% to 20% biodiesel according to ASTM D6751 standard). Ensure that all components of the heating system, supply line and burner components are B20 compatible. Before first start-up, ensure that the oil storage tank has been thoroughly cleaned prior to the biodiesel blend delivery.

Biodiesel blends are likely to have reduced long-term storage stability performance. Aging and oxidation can lead to high acid numbers, high viscosity, and the formation of gums and sediments that may cause filter clogging and pump seizing.

#### **⚠️AVERTISSEMENT:**

Différents aspects du système de chauffage peuvent être affectés par l'utilisation de mélanges composés de biodiesel (stockage, système d'alimentation entre le réservoir et le brûleur, composants du brûleur).

Ces éléments doivent être conçus de manière à être compatibles avec des mélanges B6 à B20 (mazout de chauffage selon l'ASTM D396 avec 6% à 20% de biodiesel selon la norme ASTM D6751). Il est nécessaire de s'assurer que tous les composants du système de chauffage, de la ligne d'alimentation aux composants du brûleur, soient compatibles au B20. Avant le premier démarrage, vérifier que le réservoir ait été complètement nettoyé avant la livraison du mélange mazout/biodiesel.

Les biodiesels auront probablement une durée de stockage réduite sur le long terme. Vieillessement et oxydation peuvent conduire à des indices d'acide élevés, une importante viscosité, et à la formation de gommages et de sédiments pouvant causer le colmatage du filtre et le grippage de la pompe.

### B. Piping:

All waste oil pumps are to be connected one pipe. The system may return excess fluid to tank after the fluid goes to a reservoir or siphon pick-up per typical tank installation figure. 1/2" or 3/4" line may be used with the following restrictions applying to the horizontal run (H) allowed:

#### Inlet

Line Size	Lift	Length (Lift and Run)
1/2" I.D.	0'	41'
1/2" I.D.	14'	20'
3/4" I.D.	0'	90'
3/4" I.D.	14'	48'

Line lengths based on straight weight automotive oils maintained at 50°F minimum, multi-weight oils maintained at 32°F minimum.

A 30 mesh secondary strainer is supplied in the unit. An external primary strainer must be supplied by the burner/furnace manufacturer upstream of the fuel unit. The strainer must comply with U.L. requirements.

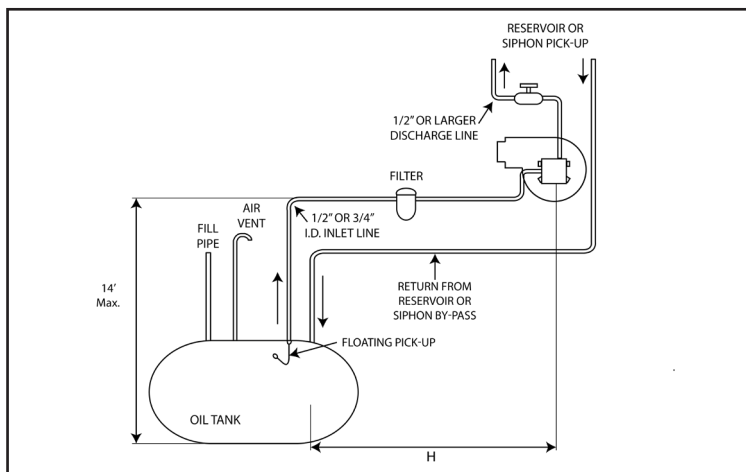
**NOTE:** Model A2RA-7737 requires external shut-off valve.

### C. Pump Connections:

Install a vacuum gage in the inlet line close to the pump or in the unused inlet port. During operation, vacuum must not exceed the Operating Vacuum specified on the reverse under pump specifications.

### D. Priming Procedure:

Fill pump with clean room temperature oil thru inlet port, start pump and open bleed valve. Bleed pump for several minutes or until air free oil is observed flowing from bleed port.



TYPICAL OUTSIDE TANK INSTALLATION

Suntec Industries, Inc  
60 Aberdeen Drive  
Glasgow, KY 42141  
tel: (270) 651-7116  
fax: (270) 651-9276  
toll free: 1-(800)-367-7116



Website: [www.suntecumps.com](http://www.suntecumps.com)  
Email: [info@suntecumps.com](mailto:info@suntecumps.com)

Form 2102-B20 - Ed.3 - 11/12/19