

PORT SIZE :	Inlet - 1/4-18 NPTF Nozzle - 1/8-27 NPTF		
FUEL:	Waste Oil, No. 4 & Lighter Fuel Oil, B6-B100 (blends from 6% up to 100% biodiesel, as defined in ASTM D396 and ASTM D6751)		
LIFT	14' Maximum		
OPERATIONAL VACUUM:	20 in. Hg. Maximum - Waste Oil & Fuel Equivalent to No. 4 10 in. Hg. Maximum - No. 2 & Lighter Fuel Oil, B6-B100		
SPEED (RPM):	A2RA-7736-B 3450/1725	A2RA-7737-B 3450/1725	A1RA-7738-B 1725
TRANSFER RATING (GPH @PSI):	2.5 @110 / 2.5@30*	2.5 @20 / 2.5 @20	2.5 @105
PRESSURE RANGE (PSI) REGULATOR	100-150 /*	10-20 / 10-20	100-150
FACTORY SET	100 /*	10 / 10	100
ACTUAL DELIVERY	0-150 / 0-30+*	0-20 / 0-20	0-150
CUT OFF FUNCTION NOZZLE PORT	YES	NO	YES
ALTERNATIVE NOZZLE PORT:	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-B transfer pump should be installed in accordance with the National Board of Fire Underwriter's requirements and local ordinances where applicable.

IMPORTANT INFORMATION:

This product is compatible with Fuel oil #4 and lighter, B6-B100 (blends from 6% up to 100% biodiesel, as defined in ASTM D396 and ASTM D6751). This product must be installed, adjusted and started only by a qualified and licensed technician and done so in accordance with all appropriate local and national codes and ordinances, such as National Fire Protection Standard for Liquid Fuel Equipment, NFPA 31, CSA B139-M91, etc.

⚠️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 B100 biodiesel blends (fuel oil according to ASTM D396 and ASTM D6751 with 6% to 100% biodiesel). Ensure that all components of the heating system, supply line and burner components are B100 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 B100 (mazout de chauffage selon l'ASTM D396 et ASTM D6751 avec 6% à 100% de biodiesel). 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 B100. Avant le premier démarrage, vérifiez 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.

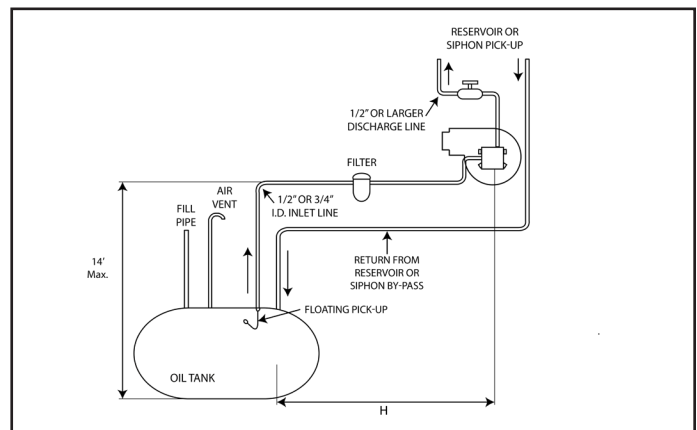
NOTE: Model A2RA-7737-B requires external shut-off valve.

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