

Hy-Tower™ (SL) Specifications

Hydraulic, semi-automatic roll-off truck covering system to be Donovan Enterprises' **HY-TOWER™(SL)** model for use with 10 yard to 40 yard roll-off containers.

INSTALLATION AND OPERATION

- Base assembly hydraulically raises tarp 15 feet above truck frame.
- Tarp is manually deployed and self-retracting from a spring loaded roller bar without the use of pivot arms or external springs.
- System delivered in two parts:
 - Fully assembled base assembly with pre-assembled self-contained 12-volt hydro-electric pump;
 - Fully assembled tarp housing and roller bar assembly.

BASE ASSEMBLIES

Four stage telescoping design capable of raising tarp 15 feet above truck frame utilizing one 2000 psi hydraulic cylinder and two 3/16" cable and pulley assemblies.

- Base assembly is comprised of four telescoping pre-assembled legs as follows:
 - Primary stage is 4" X 6" X 3/16" wall mechanical tubing. Channel and brackets are supplied for attachment to the truck frame.
 - The second and third stages are special aluminum extrusions (6061-T6), 3/16" wall thickness.
 - The fourth stage is a special aluminum extrusion (6061-T6), 1/2" wall thickness, with pre-drilled holes for attachment of the roller bar housing.
- Single hydraulic cylinder with 1 1/2" bore and 42" stroke, welded construction with integral mounting sleeve. Cylinder max operating pressure is 2000 psi.

TARP HOUSING AND ROLLER BAR ASSEMBLY

- Tarp housing is 106" long and deflects wind by covering front and top ends of roller bar.
- Integral ratchet device at driver's side of roller bar allows for easy adjustment of tension in roller bar spring.
- Roller bar has the following parts:
 - 5" outside diameter aluminum tube.
 - Aluminum end caps with integral sealed ball bearings.
 - 1/2" zinc plated shaft.
 - Spring assembly.
- Tarp spring tension:
 - 12 to 14 lbs. fully retracted.
 - 48 to 52 lbs. fully deployed.

SELF-CONTAINED HYDRO-ELECTRIC POWER UNIT

12-volt (DC) hydro-electric power unit is pre-assembled and attached to the bottom (fixed) stage of base assembly on driver's side of truck. Hydraulic hoses are connected from the pump to the hydraulic cylinder. Power unit characteristics:

- One gallon per minute flow rate.
- 1950 psi maximum operating pressure.
- Pre-fabricated mounting bracket.
- Internal check valve to hold unit in the "extended" position.
- (2) ½" diameter hydraulic hoses with hose fittings.
- (1) Roll of double strand electrical wire with crimp on lugs.
- (2) .75 gpm pressure compensating flow control fitting (allows smooth, even operation in both directions).
- (1) Bi-directional remote operating switch.

SAFETY DEVICE

- Proximity switch activated when system is raised two inches causing an alarm to sound and light to flash.
- Cutoff switch, in cab, prevents normal operation of hydraulic pump.

FINISH

All steel components must be finished with a primer and a gloss enamel finish.

HARDWARE

Covering system is to be supplied with all of the nuts, washers, bolts, mounting brackets, installation instructions, warning stickers/labels, and miscellaneous hardware necessary to install the mechanism onto the truck frame.