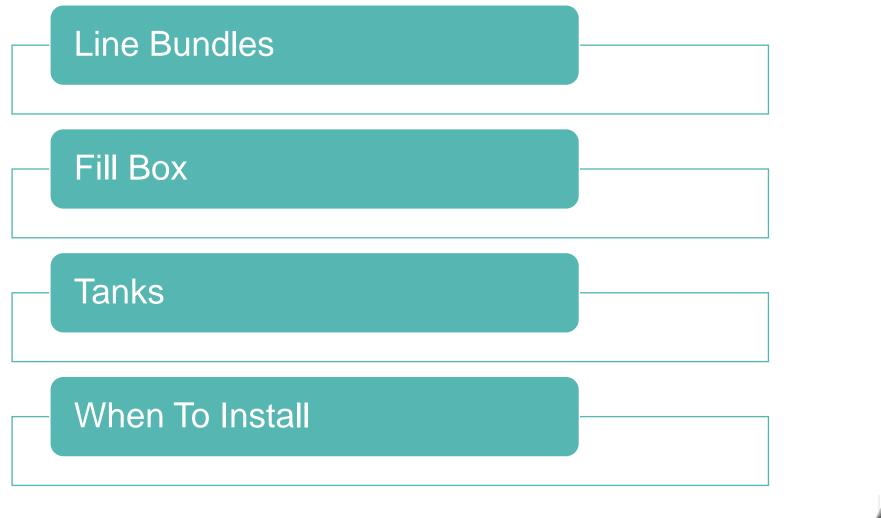
RESTAURANT TECHNOLOGIES® *CONTROL THE KITCHEN CHAOS*

General Contractor Information

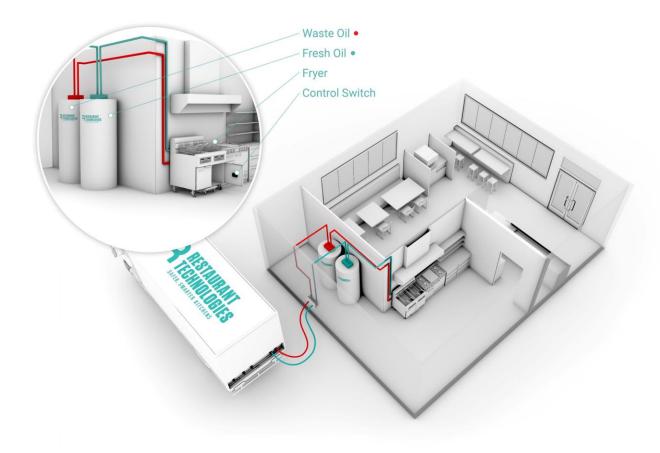
RTI Bulk Oil Installations







Total Oil Management System Overview





Line Bundles

We run flex oil lines for all locations. This encompasses from the external Fill Box to Tanks and from the Tanks to Fryers. We do not run hard pipe.

We provide Stainless-Steel chases for an aesthetically pleasing look to cover our lines at the fryer location and fill box location, if necessary



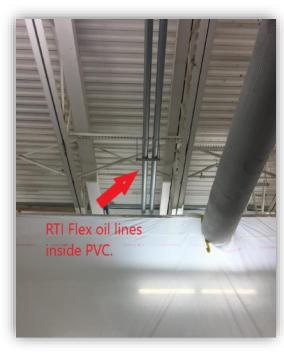






Line Bundles Cont.

If the survey shows our lines running through an exposed ceiling, it is up to the customer to decide if our exposed line bundle will suffice. If it is determined that the lines are visible to the customer and not aesthetically pleasing, the customer would need to have the GC run PVC (4") for our line bundle, with a pull string.







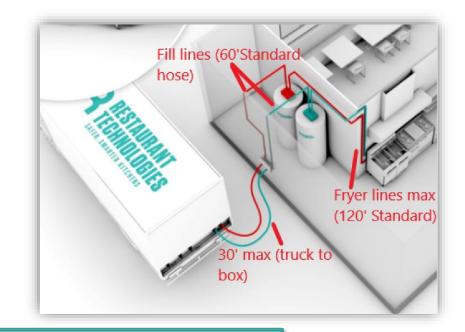


Line Bundles Cont.

Oil is pumped through spur gear pumps. We have specific limitations and parameters. Refer to the chart to determine if your location meets our specifications.

If the tanks are not located on the main floor, please reach out to your RTI Project Manager or Install Coordinator for elevation specifications.

We have the option to increase hose sizes to meet building requirements, however, this may result in additional costs for the customer.



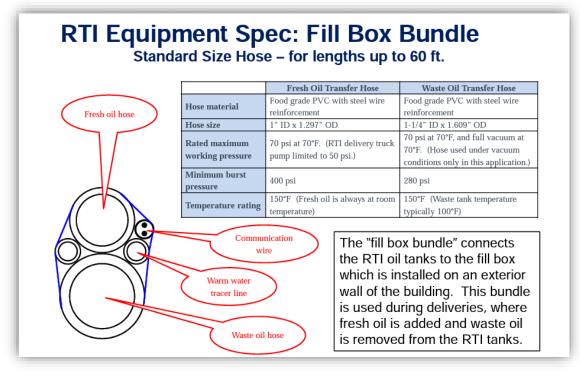
Recommended Maximum Distances:

The following distances are for installations where tanks, fill box and fryers are located on the same floor.

Indoor Tanks	Max (ft) Standard Hose	Max (ft) Upsized Hose
Distance from fill box to delivery truck back panel	30'	30"
Length of hose from fill box to fresh oil tank		120'
Length of fresh oil hose from fresh oil pump located on the tank to the fryer	120'	300'
Length of waste oil hose from fryer to waste oil tank	120'	300'



Line Bundle Specifications



RTI Equipment Spec: Fryer Bundle Standard Size Hose – for lengths up to 120 ft.

		Fresh Oil Transfer Hose	Waste Oil Transfer Hose	
Fresh oil hose	Hose material	Food grade PVC with polyester	Nitrile rubber with braided high	
		filament reinforcement	tensile steel wire reinforcement	
	Hose size 3/4" ID x 1.10" OD		3/4" ID x 1.16" OD	
	Rated maximum	200 psi at 70°F. (RTI pump	250 psi. (Fryer pump typically	
	working pressure	limited to 75 psi)	limited to 75 psi or less)	
	Minimum burst pressure	800 psi	500 psi	
	Temperature rating	150°F (Fresh oil is always at room	275°F constant, 350°F intermittent.	
	remperature rating	temperature)	(Oil transferred at 200°F or less)	
	Communication wire Warm water tracer line Waste oil hose		The "fryer bundle" connects the RTI oil tanks to the restaurant fryers. This bundle is used whenever fresh oil is added to a fryer or used cooking oil is disposed of from a fryer.	



External Fill Box

Surface Mount - Existing Building



Installed by RT on day of installation

Flush Mount – New Construction



GC is responsible for installation. If you need it immediately to rough in, we can have it shipped to you. *Please Note:* A 4" core hole is required to install. Preferred height 48"-60".

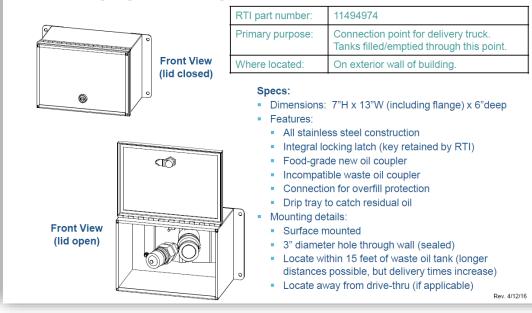


External Fill Box Specs

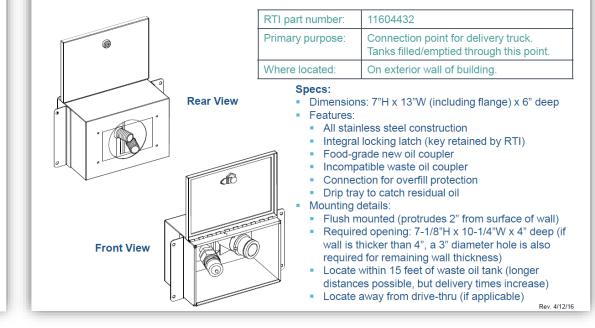
Surface Mount – Installed by RT

Flush Mount – Installed By GC

RTI Equipment Spec: Surface Mount Fill Box



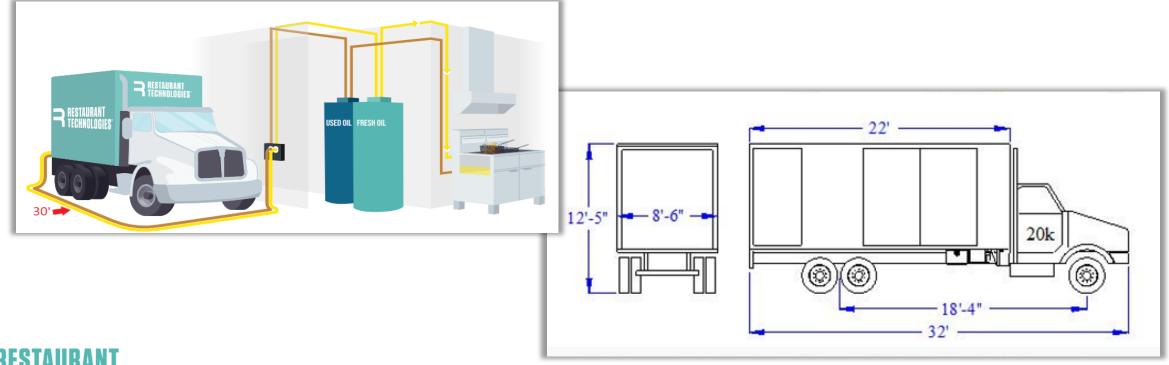
RTI Equipment Spec: Flush Mount Fill Box





External Fill Box and Truck Placement

This placement of this box must be within 30' of where the RT Truck will park to deliver. Upon placement, please designate a safe location for our Truck to park for deliveries. Truck dimensions below. Please be mindful of tight spaces, low awnings and parking garages may not be suitable for a truck this size.



Indoor Tanks Option

Electrical Requirements for RT Indoor Tanks

(Restaurant Technologies to visibly post at tank location)

Listed below are the power requirements for the Restaurant Technologies indoor tanks. These requirements are for the supporting equipment located on top of the Restaurant Technologies tanks.



Dedicated Quad Outlet



Equipment to be installed:

· One (1) quad outlet, or two (2) duplex receptacles.

Required Voltage/Amperage:

- 120Vac, 20amp, single phase.
- The Restaurant Technologies equipment that will plug into these receptacles are UL listed appliances and will pull less than 20amps total when all are running at the same time (rare occasion).

Location of Receptacle:

On wall centered between Restaurant Technologies tanks, 7 feet above floor.

Wiring:

- Can put both receptacles in one enclosure (quad) or separate enclosures. If separate enclosures, receptacles must be located within 3 feet of each other.
- · Wire to building switchboard or panelboard.
- · Wire both duplex receptacles to a single dedicated 20amp breaker.
- Label breaker "RTI"
- All wiring must conform to the NEC.
- Permits should be pulled when required by the authority having jurisdiction.



Tanks will be installed the same day of installation. One Fresh Tank and one Waste Tank will be provided. We request the installation of a quad outlet before our scheduled arrival date.

Tanks cannot be within 3 feet of electrical panel

Outdoor Tanks Option

Equipment Spec – Outdoor Tank Standard Capacity (1,300 lbs. capacity) Fill Box Dimensions 88" Long x 48" Wide x 50" Tall NOTE: Fill box door will stick up an additional 2" when open. Tank Material = Food-Grade Polyethylene Enclosure Material = Polyethylene 120 VAC power required (maximum draw = 25 amp) Net Storage Capacity, at overfill switch trip point Fresh oil tank = 1,300 lbs. (169 gallons) Waste oil tank = 1,300 lbs. (169 gallons) Weight Empty = 883 lbs. Full = 2,183 lbs. (typical max weight, fresh tank full and waste tank empty) Max = 3,483 lbs. (both tanks full – unlikely scenario) Features Fresh Tank Overfill protection provided on both tanks. Heated enclosure (500W max enclosure heater draw). Fresh oil tank provided with remote level gauge, located inside kitchen, that reads in "pounds of oil". Waste Tank Space inside enclosure for locating supporting equipment. Enclosure 100% sealed. Meets SPCC requirements for secondary containment. - Fresh oil tank certified by NSF to ANSI/NSF Standard 4. Assembly listed to UL 499.

Electrical Requirements for RT Outdoor Tank

(Restaurant Technologies to visibly post at tank location)

Listed below are the power requirements for the Restaurant Technologies outdoor tank. These requirements are for the tank heating system and supporting equipment located inside the tank enclosure. Equipment to be installed:

One (1) electrical disconnect.

Required Voltage/Amperage:

120Vac, 25amp, single phase

Specifications for Disconnect:

WARNING: DO NOT connect to 220Vac power! Connect to 120Vac, single phase.



Electrical Disconnect

02.0

Minimum rating = 25 amps at 120Vac, single phase.
Number of poles = 2 plus ground
Enclosure type = must be rated for outdoor use
Arc shield required over terminals
Enclosure must have knock-outs for ½" conduit.
Switch type = lever (blade) type. Must be capable of being locked in the OFF position.
Location of Receptacle:
On exterior wall, 60" (min.) above ground and within 6 ft of outdoor tank.

- Wiring:
- · Wire to building switchboard or panelboard, 25 amp dedicated breaker.
- Label breaker "RTI"
- All wiring must conform to the NEC.
- · Permits should be pulled when required by the authority having jurisdiction.

If a site is receiving an Outdoor Tank, we will require the General Contractor (GC) to install an electrical disconnect for the tanks.



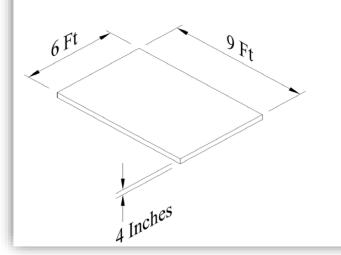
Size and Electrical Requirements

Outdoor Tanks Surface Preparation

Equipment Spec – Outdoor Tank Site Prep Requirements

- The 1300 lb outdoor tank must be installed on a flat, hard, level surface. The surface must be capable of handling the weight of the outdoor tank when full. The surface should not be wooden or made of any other material that can rot or degrade over time.
 - 1) <u>Acceptable surfaces</u> = concrete, asphalt, bricks, pavers, patio blocks, hard dirt. Surface must be level.
 - 2) <u>Unacceptable surfaces</u> = wood, wooden pallets, gravel, loose stone, mulch, loose dirt, or any unlevel surface.
- 2) It is the customer's responsibility to ensure that the above acceptable surface is in place prior to the installation of the RT tank.
- 3) The 1300 lb outdoor tank shall not be installed on an elevated platform or deck. The only exception would be if the customer provides in advance an approval by a Civil Engineer licensed in the state and an approval by the local Building Department or AHJ.
- 4) If the 1300 lb outdoor tank is to be installed in a seismic zone (west coast or Memphis,TN), the tank must be installed either on existing concrete (min. 4" thick) or have a concrete pad created per the specs on the next page. These conditions are required if seismic restraints are needed.
- 5) Required clearance around tank:
 - 1) Enough space to get between the tank and the wall for access to the lids. Recommended clearance = 18" to 24" minimum.
 - For seismic zones, enough space to install seismic restraints (see dimensions of concrete pad on next page).
 - 3) Fill Box must be accessible to the RT Delivery Driver.

Equipment Spec – Outdoor Tank Concrete Pad Specs



- Dimensions = 6 feet x 9 feet.
- Thickness = 4" minimum.
- Compressive strength (f'c) = 3000 psi minimum in accordance with ACI 318-14.

NOTE: This pad is required for sites where seismic restraints are required.

Examples of Installed Outdoor Tanks

Coming out of the drop ceiling to the outside, RT Technicians will drill a hole and run PVC down to the tanks. Our flex oil line will run inside the PVC that we provide. Sometimes we penetrate low and chase up on the inside (far right picture).





When to Install

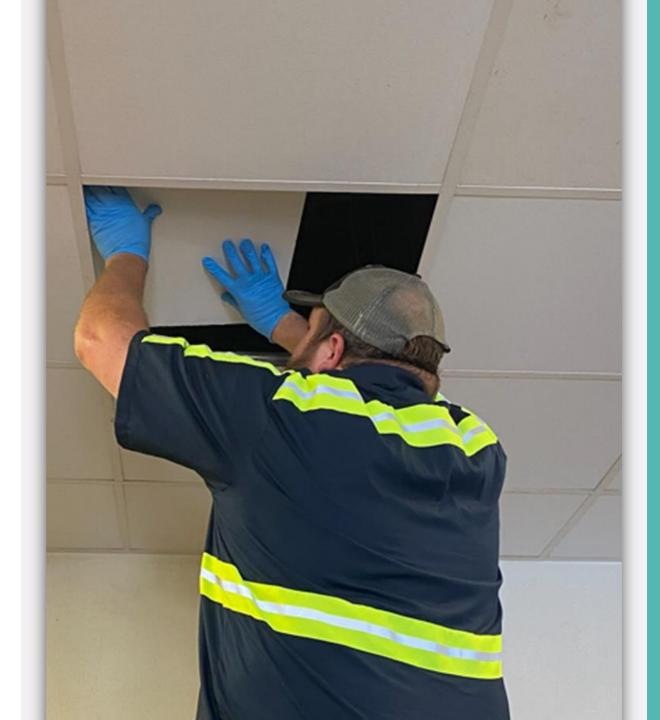
While the customer prefers a prompt installation, our bulk oil system is designed as a finished product. We install everything in one shot, usually within 6-8 hours.

As most of our installs are within existing locations, we are accustomed to installing with a full ceiling in place. We handle the removal of ceiling tiles and the running of hoses with care. The hoses will be securely zip-tied high above the ceiling tiles and framing.

We typically Install the week after Fryers arrive

Other action items that need to be complete before we can install:

- ✓ Parking lot is complete so that we can safely offload our Tanks.
- ✓ Floors and walls complete so that our Tanks can be mounted.
- Permanent power to the building is required so that we can capture filtration readings from your fryer and oil readings from your tank.





We look forward to working with you! Please reach out if you need more information.

