

# DOUBLE-WALL S&F TANK

S&F DOUBLE-WALL TANK  
Steel & FRP





# S&F DOUBLE-WALL TANK

Domestic Share **NO.1** Cumulative Sales **20,000** units (As of Dec. 2012) Excellent in **Economy, Safety and Quality**

S&F Double - wall Tank is a truly innovative product; it has a double - wall structure consisting of a primary steel tank and a secondary FRP tank, and it is equipped with sensor for monitoring leakage. The seamless secondary FRP tank is manufactured using our advanced spray-up technology. \*FRP: Fiber-reinforced plastic

**ECONOMY**

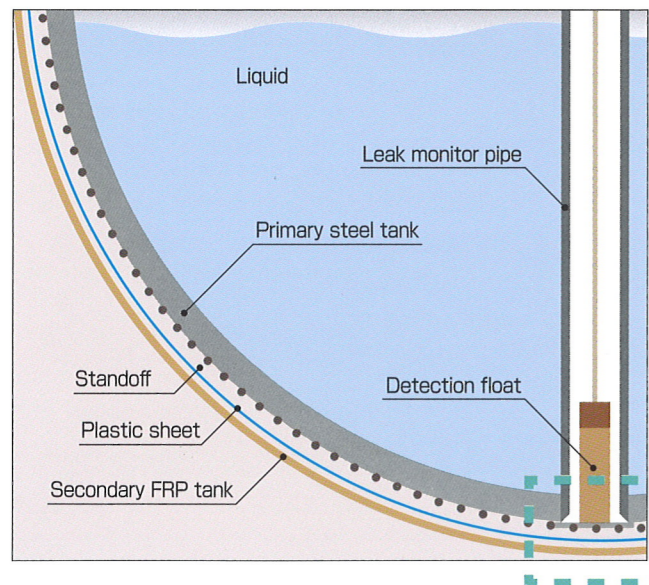
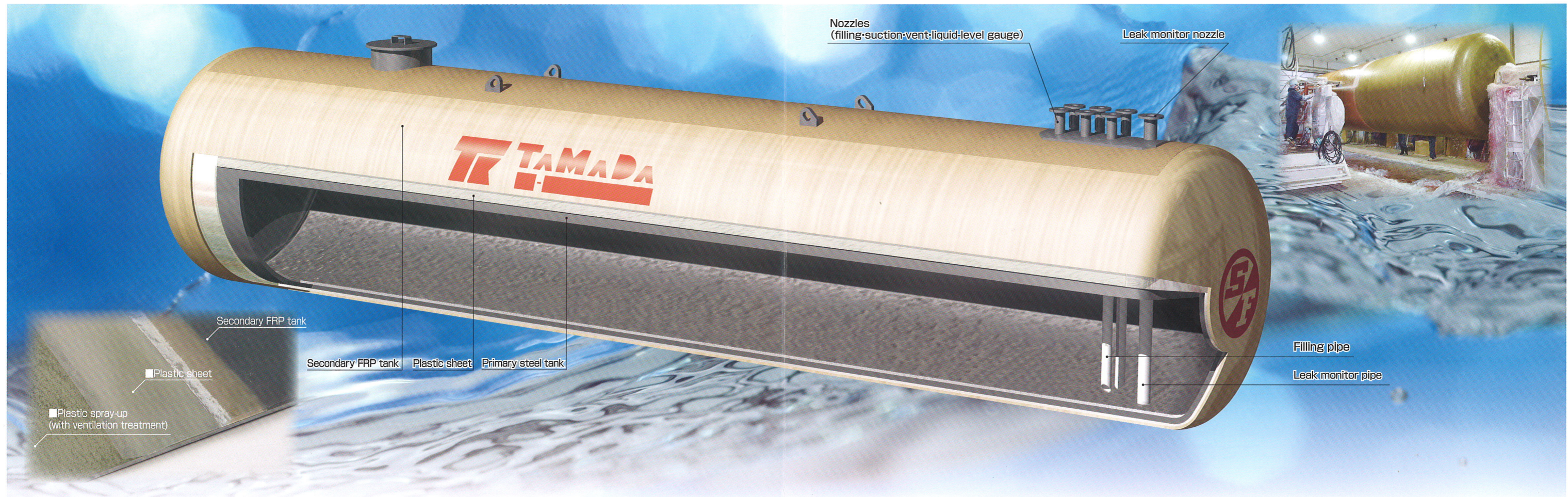
- ① Automatic production makes prices reasonable.
- ② Reduced construction costs and construction time due to elimination of a tank room

**SAFETY**

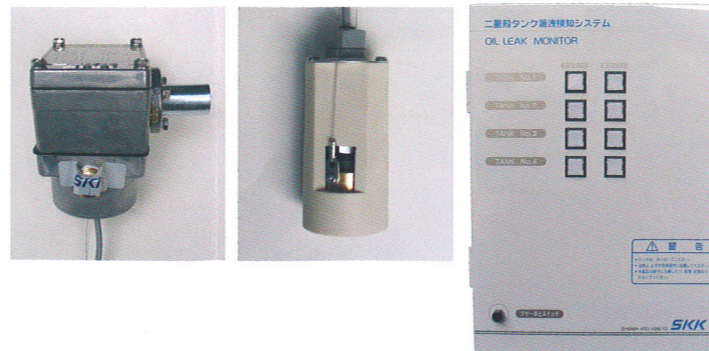
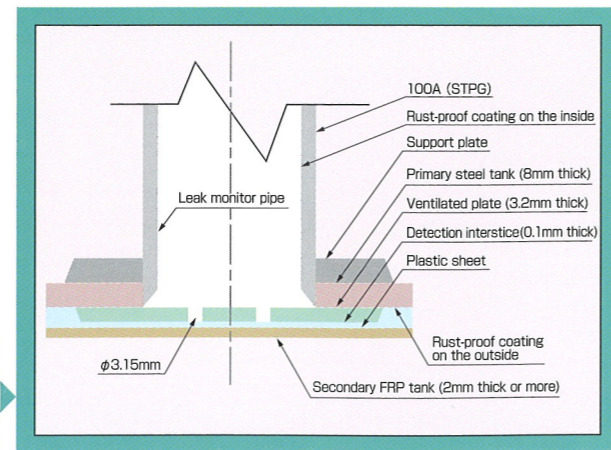
- ① Constant leakage monitoring
- ② Primary steel tank is leak proof by pressure test
- ③ Secondary FRP tank is KHK (Hazardous Materials Safety Techniques Association) certified
- ④ Capable to store alcohol blended fuels

**QUALITY**

- ① Measurement of tank wall thickness, pinhole check, water/air pressure and decompression test are conducted to ensure high performance.
- ② Highly durable FRP thickness
- ③ Pressure control throughout the installation
- ④ ISO9001 quality control



**Leak monitor** Leakage due to corrosion of the steel layer is detected before it causes soil contamination.



**Installation** It is possible to manufacture 120Kl tanks in the plant and transfer them to the installation site.



Manufactured by Showa Kiki Kogyo Co., Ltd.



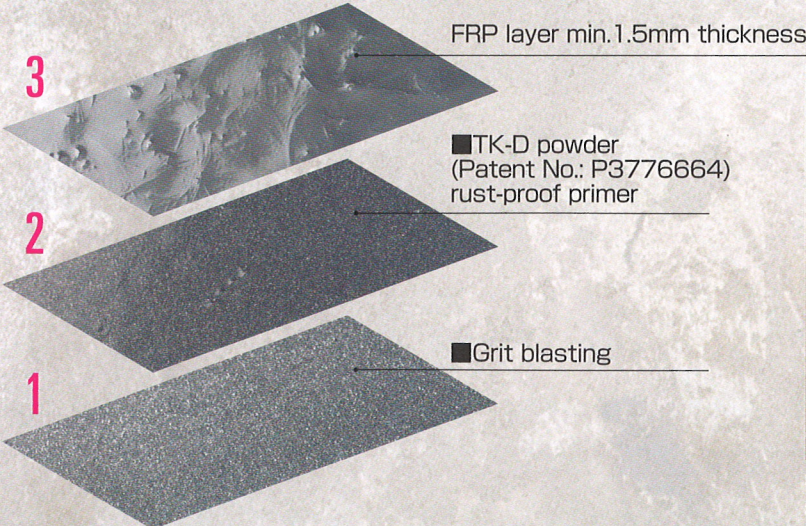
# SUPER SF DOUBLE-WALL TANK

## Most advanced tank with added values

When used for many years, steel tanks may become rusty due to oxygen contained in water, that has been created by dew condensation and has accumulated at the bottom of the tank.

Our Super SF Double-wall Tank was developed to solve this problem. The bottom of the tank interior is given a special treatment — shot blasting, coating with anti-corrosion primer that contains our original TK-D powder, and coating of an FRP layer 1.5mm thick or more; thus, concerns about rusting due to water accumulation are completely dispelled.

In addition, the outside top of the tank is coated with plastic grains to prevent slippage so that workers can work safely even on a large tank with a diameter of two meters or larger.



Corrosion due to water accumulation at the bottom of a tank after more than 40 years of use



# Custom-made tanks

We produce custom-made tanks according to  
**your specifications.**

## Internal Epoxy Coating

**Highly waterproof, solvent-resistant, chemical-resistant inner coating**

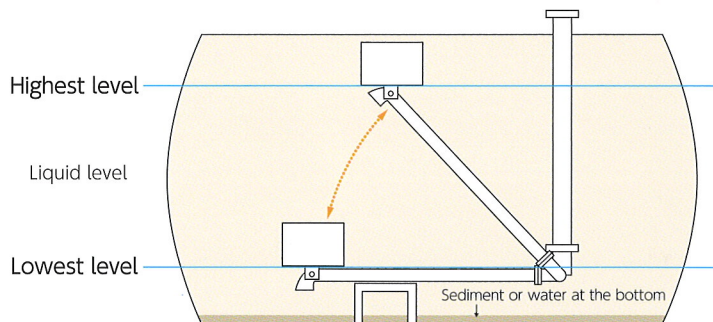
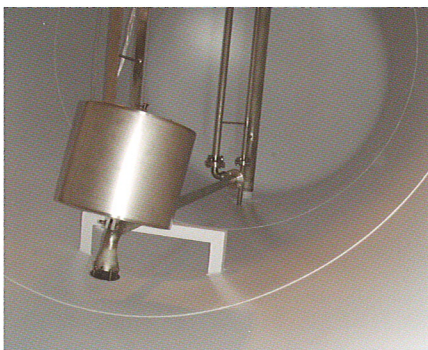
Tanks with epoxy coating are mainly used for the storage of aviation fuel, for which the utmost safety is required.

In recent years, more and more hospitals have been using air ambulance helicopters to meet the demands for emergency medicine and disaster response. We have therefore adopted white epoxy, which has no effect to stored jet fuel, for coating the entire internal surface of a tank. The tank is manufactured using our dependable technology, according to the Guidelines for Handling Jet Fuel stipulated by the Petroleum Association of Japan. The tank can be safely used for various fuels and solvents.



## Floating Suction Unit

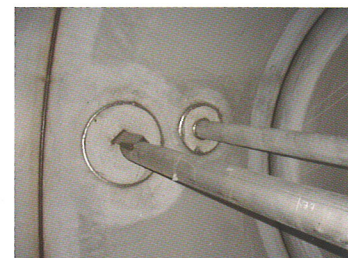
The suction unit is installed within storage tanks, and suctions liquid from a constant position near the surface; therefore, there is no need to worry about suctioning sediment or water accumulating at the bottom of the tank.



## Stainless Steel Tank

**Stainless steel tank for storing solvents**

The stainless steel tank is highly durable and corrosion-resistant, so it is suitable for storing solvents and other liquids that require high-quality management. The tank's double-walled structure provides further safety. Pickling, degreasing and buff polishing are available.



## Our Other Services

- Design and construction of gas stations
- Design and construction of oil storage plants
- Design and construction of airplane fuelling facilities
- Manufacturing and sales of earthquake-proof water tanks and water tanks for fire control
- Manufacturing of the DEPOT ANGEL compact steel basement
- Manufacturing of the AQUA in PIT circulation water tank
- Application of linings for underground tanks and pipes
- Sales and maintenance of fuel measurement instruments, flow meters, oil pumps, small tanks for private use, car wash machines, etc.
- Overseas technical partnership business



## Dimensional data

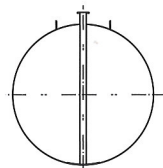
Capacity*Model	Weight(kg)	Length(mm)	diameter(mm)	Standard
25*	430	1,895	1,280	For waste oil
105*	2,060	3,615	2,100	Original standard (t8)
20		6,968		
S*	3,600	8,492	2,100	Original standard (t8)
H0(10:10)	3,940			
S*	4,290	10,016	2,100	Original standard (t8)
25				
X(10:15)	4,630	10,016	2,100	Original standard (t8)
H(12.5:12.5)	4,630			
S*	4,990	5,477	2,400	Original standard (t8)
30				
X(10:20)	5,330	5,477	2,400	Original standard (t8)
H(15:15)	5,330			
T(10:10:10)	5,780	7,806	2,400	Original standard (t8)
20				
SL*	3,360	7,806	2,400	Original standard (t8)
HL(10:10)	3,780			
SL*	4,580	11,658	2,400	Original standard (t8)
30				
XL(10:20)	5,000	11,658	2,400	Original standard (t8)
HL(15:15)	5,000			
TL(10:10:10)	5,570	5,562	2,400	Original standard (t8)
22				
SL*	3,410	5,562	2,400	Original standard (t8)
HL(11:11)	3,830			
SL*	4,200	7,086	2,400	Original standard (t8)
28				
XL(10:18)	4,630	7,086	2,400	Original standard (t8)
HL(14:14)	4,630			
SL*	5,800	10,134	2,400	Japan Petroleum Association standard (t8)
40				
XL(10:30)	6,220	10,134	2,400	Japan Petroleum Association standard (t8)
HL(20:20)	6,220			
TL(10:10:20)	6,790	6,590	2,400	Japan Petroleum Association standard (t8)
20				
SL*	6,590	11,658	2,400	Japan Petroleum Association standard (t8)
48				
XL(16:32)	7,020	11,658	2,400	Japan Petroleum Association standard (t8)
HL(24:24)	7,020			
TL(16:16:16)	7,580			

\*Single compartment tank

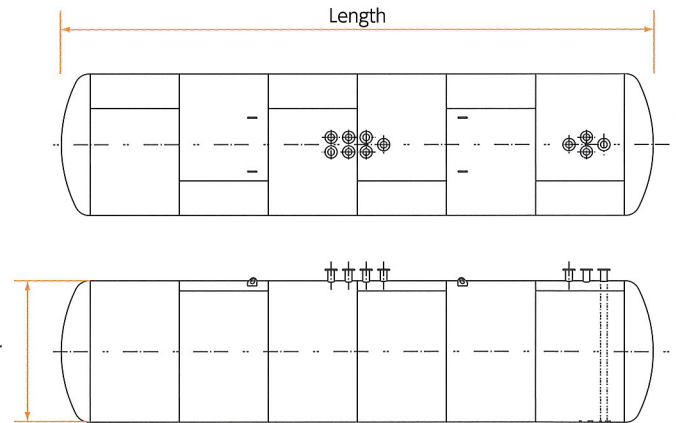
Capacity*Model	Weight(kg)	Length(mm)	diameter(mm)	Standard
45*	990	3,536	1,300	Public building equipment standard
55*	1,170	4,356	1,400	
65*	1,290	4,494	1,500	
75*	1,400	4,583	1,600	
85*	1,550	5,203	1,800	
10S*	2,530	5,742	1,800	Public building equipment standard
12S*	2,730	5,469	1,900	
13S*	2,900	5,869	1,900	
15S*	3,290	6,769	2,000	
18S*	3,710	7,308	2,200	
20S*	4,030	8,008	2,700	Original standard (t9)
25S*	4,750	9,047	2,950	
30S*	5,240	9,024	3,200	
50S*	7,300	10,264	3,200	
60S*	8,080	10,358	3,200	
70S*	8,880	10,457	3,200	Original standard (t9)
75S*	9,090	10,728	3,200	
80S*	9,820	11,677	3,200	
100S*	11,720	14,115	3,200	

\*Single compartment tank

※Weights are calculated values based on design



diameter



※The specifications are subject to change without notice.



**Tamada Industries, Inc.**

**Head Office** Ha 61-1 Muryoji-machi, Kanazawa, Ishikawa  
920-0332 Japan  
TEL: +81(0)-76-267-4888 FAX: +81(0)-76-267-5415

**Manufacturing Division** Ha 61-1 Muryoji-machi, Kanazawa, Ishikawa  
920-0332 Japan  
TEL: +81(0)-76-267-4888 FAX: +81(0)-76-267-4449

E-mail office@tamada.co.jp  
URL http://www.tamada.co.jp/

**Tokyo Branch / Tokyo Office**  
Pelican Bldg. 2F, 3-3-3 Nishishinbashi, Minato-ku,  
Tokyo 105-0003 JAPAN  
TEL: +81(0)-289-71-3336 FAX: +81(0)-3-5401-3632

**Kanto Office**  
174-3 Fukahodo, Kanuma, Tochigi 322-0302 Japan  
TEL: +81(0)-289-71-3336 FAX: +81(0)-289-75-5588

**Northern Japan Branch / Sendai Office**  
Little Mermaid Bldg. 2F, 3-9-8 Izumi-chuo, Izumi-ku,  
Sendai, Miyagi 981-3133 JAPAN  
TEL: +81(0)-22-371-3902 FAX: +81(0)-22-371-3926

**Hokkaido Office**  
4-7-8 Satozuka3Jo, Kiyota-ku, Sapporo,  
Hokkaido 004-0803 JAPAN  
TEL: +81(0)-11-887-2424 FAX: +81(0)-11-887-2425

**Kansai Branch / Osaka Office**  
Fujitaka Bldg. 6F, 1-3-13 Minamimorimachi, Kita-ku,  
Osaka-shi, Osaka 530-0054 JAPAN  
TEL: +81(0)-6-6313-1577 FAX: +81(0)-6-6313-1578

**Western Japan Branch / Fukuoka Office**  
Esu-kowa Bldg. 1, 1-1-24 Enokida, Hakata-ku,  
Fukuoka-shi, Fukuoka 812-0004 JAPAN  
TEL: +81(0)-92-292-7026 FAX: +81(0)-92-292-7034

**Hiroshima Office**  
Nakahiro Central Bldg. 501, 3-3-18 Nakahiro-machi,  
Nishi-ku, Hiroshima-shi, Hiroshima 733-0012 JAPAN  
TEL: +81(0)-82-231-0695 FAX: +81(0)-82-231-0749



ISO9001: Certified in 2008  
Fire control water tank, earthquake resistant  
water tank, S&F double wall tank

**Chubu Branch / Kanazawa Office**  
Ha 61-1 Muryojimachi, Kanazawa, Ishikawa  
920-0332 JAPAN  
TEL: +81(0)-76-267-4888 FAX: +81(0)-76-267-5415

**Toyama Office**  
87-1 Kurose, Toyama-shi, Toyama 939-8213 JAPAN  
TEL: +81(0)-76-424-4844 FAX: +81(0)-76-425-1178

**Fukui Office**  
2-117 Toiyacho, Fukui-shi, Fukui 918-8231 JAPAN  
TEL: +81(0)-776-23-7784 FAX: +81(0)-776-27-7516

**Nagoya Office**  
Sugino Bldg. 2F West, 1-55-2 Suyama-cho, Mizuho-ku,  
Nagoya, Aichi 467-0066 JAPAN  
TEL: +81(0)-52-858-1917 FAX: +81(0)-52-858-1918

**Niigata Office**  
Beruku Shimoyama A-1, 5-122 Simoyama, Nagaoka,  
Niigata 940-2115 JAPAN  
TEL: +81(0)-258-20-5771 FAX: +81(0)-258-20-5772

**Hokuriku Plant / FW Plant**  
Ha 61-1 Muryojimachi, Kanazawa, Ishikawa  
920-0332 JAPAN  
TEL: +81(0)-76-267-4888 FAX: +81(0)-76-267-4478

**Kanto Plant**  
174-3 Fukahodo, Kanuma, Tochigi 322-0302 JAPAN  
TEL: +81(0)-289-71-3337 FAX: +81(0)-289-74-5088

**Kyushu Plant**  
1196-1 Shichijo-machi Sosaki, Kikuchi, Kumamoto  
861-1344 JAPAN  
TEL: +81(0)-968-26-3550 FAX: +81(0)-968-26-3551