

FOR TANK DIA. UP TO 45 ft.

BREW KETTLES • CHEMICAL TANKS
DAIRY TANKS & TOTES • TANKER
TRUCKS • FOOD & BEVERAGE TANKS
PROCESS TANKS • BROKE CHESTS
PHARMACEUTICAL TANKS

TANKDIA. UPTO 45 FT. (13.7 M) INTRODUCTION





MINIMIZE THE USE OF CHEMICALS WITH EFFICIENT, DEPENDABLE CLEANING

RELIABLE AND CHEMICAL-RESISTANT TANK CLEANING SOLUTIONS

Available in a variety of spray coverage options and impact ratings, these TankJet® nozzles effectively clean tanks in shorter cleaning cycles to provide savings on water and chemicals. A range of chemical-resistant materials and differing operating principles make this collection ideal for harsh environments.



QUICK REFERENCE GUIDE

Model	Cleaning Power	Max. Tank Diameter ft. (m)	Operating Principle	Flow Rate gpm (lpm)	Operating Pressure psi (bar)	Spray Coverage	Max. Temperature °F (°C)	Materials	Page Number
TankJet® 78 & 78D	High impact	45 (13.7)	Fluid-driven turbine	65 to 165 (246 to 625)	25 to 100 (1.7 to 6.9)	360°	200 (93)	316L stainless steel, PTFE and EPDM All materials meet FDA Title 21 CFR	C4
TankJet 65	High impact	40 (12.2)	Fluid-driven turbine	30 to 150 (114 to 568)	50 to 150 (3.4 to 10.3)	360°	250 to 500 (121 to 260)	Standard version: Stainless steel, PTFE, UHMW-PE, nylon High-temperature version: Stainless steel	C6
TankJet AA190 Ex	High impact	40 (12.2)	Motor-driven	3.1 to 44 (11.8 to 167)	100 to 1000 (6.9 to 69)	180°, 360°	200 (93)	Seals – PTFE fluoropolymer resin All other metallurgy – 316 stainless steel	C8
TankJet YMD3	High impact	30 (9.1)	Motor-driven	8.6 to 37.5 (32.6 to 142)	725 to 4350 (50 to 300)	360°	176 (80)	316 stainless steel, PTFE and fluororubber	C12
TankJet 75	Medium impact	30 (9.1)	Fluid-driven turbine	15.0 to 33 (57 to 125)	75 to 300 (5.2 to 21)	360°	250 (121)	316 stainless steel, PTFE and UHMWE-PE	C14
TankJet 27500 & 27500-R ⟨€x⟩	Medium impact	25 (7.6)	Fluid-driven reactionary force	125 to 391 (475 to 1480)	10.0 to 50 (0.7 to 3.4)	180° up/down, 270° up/down, 360°	200 (93)	PTFE fluoropolymer resin	C16
TankJet 16	Medium impact	24 (7.2)	Fluid-driven turbine	36 to 76 (136 to 288)	50 to 200 (3.4 to 13.8)	180° up/down, 270° down, 360°	250 (121)	316 stainless steel and PTFE	C18

TANKJET 78 & 78D SANITARY TANK CLEANER FEATURES AND BENEFITS

• High-impact 360° coverage ensures tank cleanliness and results in shorter cleaning cycles and reduced use of water and chemicals

 Patent-pending sanitary design meets 3-A Sanitary Standard 78

• Fast and easy maintenance without tools

• Easy retrofit for spray balls

· Choice of two- or four-nozzle configurations and inlet connection size

 Ideal for cleaning food, dairy and beverage tanks, blenders, spray dry towers and pulp chests

· Can be steam sanitized



This unit meets the requirements of 3-A Sanitary Standard 78. Spray cleaning devices intended

to remain in place.



SPECIFICATIONS

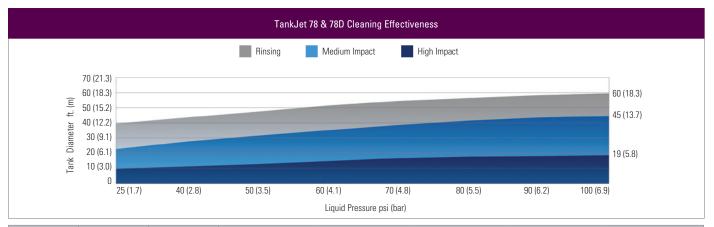
TankJet 78 & 78D Sanitary 1	TankJet 78 & 78D Sanitary Tank Cleaners						
Max. tank diameter:	45 ft. (13.7 m)						
Operating principle:	Fluid-driven turbine						
Flow rate:	65 to 165 gpm (246 to 625 lpm)						
Operating pressure:	25 to 100 psi (1.7 to 6.9 bar)						
Wash cycle time:	3 to 6 min						
Max. temperature:	200°F (93°C)						
Materials:	316L stainless steel, PTFE and EPDM All materials meet FDA Title 21 CFR						
Inlet connection:	1-1/2" or 2" slip-fit						
Optional accessories:	Strainers, recommended mesh size: 50 (297 micron) See page G2						

IDEAL FOR CLEANING:

- · Milk, cheese, yogurt tanks
- · Spray drying towers
- Blenders
- · Brewery tanks
- Food processing vats and tanks
- · Wine vats

TRY BEFORE YOU BUY:

Ask About Our Free 15-Day Trial Program



Model	Capacity	Datina		Liq	uid Flow Capacity gpm (I	pm)	
Model	Size	Rating	25 psi (1.7 bar)	ar) 40 psi (2.8 bar) 60 psi		80 psi (5.5 bar)	100 psi (6.9 bar)
TJ78	375	3A	65 (246)	80 (303)	100 (379)	118 (447)	134 (507)
TJ78D	300	3A	80 (303)	100 (379)	125 (473)	146 (553)	165 (625)

DIMENSIONS AND WEIGHTS

TankJet 78 & 78D Sanitary Tank Cleane	rs Model	Inlet Conn. in.	L in. (mm)	Min. Tank Opening in. (mm)	Net Weight Ibs. (kg)
	TJ78	1-1/2	14.25 (362)	- 5.75 (146)	15.0 (6.8)
MIN. TANK OF	Single-hub PENING	2	14.63 (372)	3.73 (140)	13.0 (0.0)
	TJ78D	1-1/2	14.25 (362)	7.62/104\	10.0 /0.0
MIN. TANK OP	Dual-hub ENING	2	14.63 (372)	7.63 (194)	19.0 (8.6)

ORDERING INFORMATION

TANKJET 78 & 78D SANITARY TANK CLEANER



TANKJET 65 TANK CLEANER FEATURES AND BENEFITS

 Four solid stream nozzles, a slow and steady multi-axis rotation, and a tight 360° indexing pattern provide excellent dwell time on the tank's surface while covering the entire tank every 45 revolutions

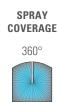
• External gears and self-cleaning, flow-through design for easy maintenance

 All stainless steel version offers high-temperature operability

· Lightweight for easy portability









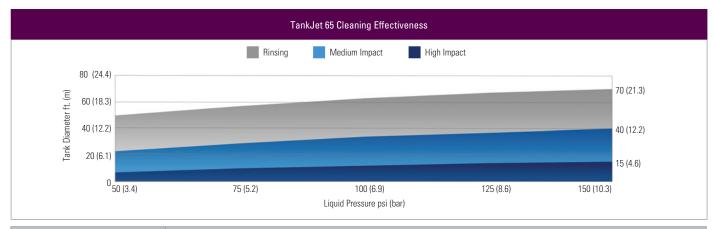
TankJet 65 tank cleaner

SPECIFICATIONS

TankJet 65 Tank Cleaner	Standard version	High-temperature version		
Max. tank diameter:	40 ft. (12.2 m)	40 ft. (12.2 m)		
Operating principle:	Fluid-driven turbine	Fluid-driven turbine		
Flow rate:	30 to 100 gpm (114 to 379 lpm)	65 to 150 gpm (246 to 568 lpm)		
Operating pressure:	50 to 150 psi (3.4 to 10.3 bar)	50 to 150 psi (3.4 to 10.3 bar)		
Max. temperature:	250°F (121°C)	500°F (260°C)		
Materials:	Stainless steel, PTFE, UHMW-PE and nylon	Stainless steel		
Rotation speed:	5 to 40 rpm	5 to 40 rpm		
Inlet connection:	1-1/2" NPT, BSPT (F) or 1" sanitary flange	1-1/2" NPT, BSPT (F) or 1" sanitary flange		
Optional accessories:	Strainers, recommended mesh size: 20 (840 micron) See page G2			

For lances, mounting kits, adapters and more, see page G6

- Brew kettles
- Chemical processing tanks
- · Dairy vessels
- Food processing vats
- · Spray dryers
- Tanker trucks



Mode	l TJ65	Liquid Flow Capacity gpm (lpm)						
Orifice Size	High Temperature	50 psi (3.4 bar)	70 psi (4.8 bar)	90 psi (6.2 bar)	100 psi (6.9 bar)	110 psi (7.6 bar)	130 psi (9.0 bar)	150 psi (10.3 bar)
250		30 (114)	39 (148)	45 (170)	49 (185)	53 (201)	58 (220)	63 (238)
313		51 (193)	60 (227)	70 (265)	74 (280)	79 (299)	85 (322)	92 (348)
375		58 (220)	69 (261)	78 (295)	83 (314)	88 (333)	94 (356)	100 (379)
250	•	65 (246)	78 (295)	90 (341)	96 (363)	100 (379)	109 (413)	116 (439)
313	•	67 (254)	83 (314)	97 (367)	103 (390)	107 (405)	117 (443)	126 (477)
375	•	86 (326)	105 (397)	119 (450)	125 (473)	130 (492)	143 (541)	150 (568)

DIMENSIONS AND WEIGHTS

TankJet 65	Tank Cleaner	Inlet Conn.	L in. (mm)	W in. (mm)	Min. Tank Opening in. (mm)	Weight lbs. (kg)
Section 1.		Threaded	10.25 (260.4)	0.02/400.4)	0.0 (222.2)	11.75 (5.3)
W —	MIN. TANK OPENING	Sanitary Flange	11.81 (300)	6.63 (168.4)	8.8 (222.3)	12.4 (5.6)

ORDERING INFORMATION

TANKJET 65 TANK CLEANER



^{*}Leave blank for NPT connection. Insert B for BSPT connection or SF for sanitary flange.

^{**}Leave blank for standard version.

TANKJET AA190 TANK CLEANER FEATURES AND BENEFITS

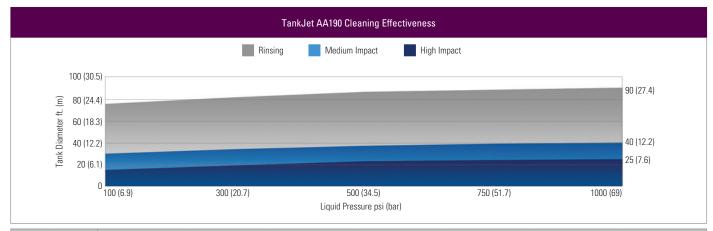
- Versatile, high-impact tank cleaner provides efficient, consistent, reliable cleaning with virtually no maintenance
- Lightweight units can be installed permanently or easily moved from tank to tank
- Unit is constructed using corrosion-resistant materials with the motor positioned outside the tank, away from harmful caustics, for trouble-free operation and long service life
- Component and configuration options allow easy customization to meet the needs of a variety of cleaning operations. Choices include:
 - Variable speed CE-approved air (AG), electric (E) or explosion-proof (E-EP) electric motors
 - Standard tank cleaner versions that operate at pressures up to 500 psi (34.5 bar)
 - High-pressure versions, for applications requiring higher impact force, that operate at pressures up to 1000 psi (69 bar)
 - 360° or 180° coverage
 - Extension lengths from 4 in. (100 mm) to 10 ft. (3.0 m)
 - Flange mounting options include: three-prong (standard),
 ASME_® raised face, and sanitary tri-clamp
- Long wear-life materials of construction with corrosion-resistant 316 stainless steel and PTFE fluoropolymer-resin seals
- · ATEX-certified versions available

SPECIFICATIONS

TankJet AA190 Tank Cleaner	Standard version	High-pressure version
Max. tank diameter:	25 ft. (7.6 m)	40 ft. (12.2 m)
Operating principle:	Motor-driven	Motor-driven
Flow rate:	3.1 to 44 gpm (11.8 to 167 lpm)	7 to 20 gpm (26 to 78 lpm)
Operating pressure:	100 to 500 psi (6.9 to 34.5 bar)	up to 1000 psi (69 bar)
Max. temperature:	200°F (93°C)	200°F (93°C)
Materials:	Seals – PTFE fluoropolymer resin All other metallurgy – 316 stainless steel	Seals – PTFE fluoropolymer resin All other metallurgy – 316 stainless steel
Inlet connection:	1" NPT or BSPT (F)	1" NPT or BSPT (F)
Motor options:	Air, electric, explosion-proof electric	Air, electric, explosion-proof electric
Optional accessories:	Strainers, recommended mesh See page G2	size: 100 (150 micron)



- · Chemical reactors
- Food processing tanks and vats
- Paint tanks
- Pharmaceutical processing vessels
- · Process tanks
- Tanker trucks



Model	AA190			Liquid Flow Cap	acity gpm (Ipm)* Liqui	d Inlet Pressure		
Nozzle	Capacity Size	100 psi (6.9 bar)	200 psi (13.8 bar)	300 psi (20.7 bar)	400 psi (27.6 bar)	500 psi (34.5 bar)	700 psi (48.3 bar)**	1000 psi (69 bar)**
	0010	3.1 (11.8)	4.4 (17.3)	5.4 (20)	6.3 (24)	6.9 (27)	8.2 (31)	9.8 (37)
	0015	4.7 (17.9)	6.6 (25)	8.1 (31)	9.4 (36)	10.5 (40)	12.4 (47)	14.9 (56)
	0020	6.2 (23)	8.8 (33)	10.8 (41)	12.4 (47)	13.9 (53)	16.4 (62)	19.6 (74)
	0025	7.7 (29)	10.9 (41)	13.3 (50)	15.4 (58)	17.2 (65)	20 (76)	-
	0030	9.1 (34)	12.9 (49)	15.8 (60)	18.2 (69)	20 (76)	-	-
1/4MEG	0035	10.5 (39)	14.8 (56)	18.1 (69)	21 (80)	23 (87)	-	-
	0040	11.8 (44)	16.7 (63)	20 (76)	24 (91)	26 (98)	-	_
	0050	14.2 (53)	20 (76)	25 (95)	28 (106)	32 (121)	-	-
	0060	16.4 (62)	23 (87)	28 (106)	33 (125)	37 (140)	-	-
	0070	18.3 (69)	26 (98)	32 (121)	37 (140)	41 (155)	-	-
	0080	19.9 (75)	28 (106)	34 (129)	40 (151)	44 (167)	-	_

^{*}Note: Flow rates tabulated above include pressure drop through unit.

AIR MOTOR (AG) CYCLE TIME DATA

Air Pressure	Air Consumption	Approx. Speed (rpm) Approx. Tim One Complete (min.)		lete Cycle		
	Concumption	Liquid Pressure psi (bar)				
psi (bar)	scfm (l/sec)	50 (3.45)	500 (34.5)	50 (3.45)	500 (34.5)	
6 (.41)	3.74 (106)	4.0	1.0	8.8	35	
8 (.55)	4.72 (134)	7.0	4.0	5.0	8.8	
10 (.69)	5.84 (165)	10.0	8.0	3.5	4.4	

ELECTRIC (E) & EXPLOSION-PROOF MOTOR (E-EP) CYCLE TIME DATA

Motor Type	Frequency @ 115 VAC	Speed (rpm)	Current (amps)	Power (watts)	Approx. Time for One Complete Cycle (min.)
Flantsia	50 Hz	3.1	.39	41	11
Electric	60 Hz	3.8	.33	34	9
Explosion-	50 Hz	.8	.3	33	44
Proof	60 Hz	1.0	.3	28	35

C9

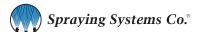
^{**}High-pressure versions only. For additional performance data on high-pressure units, contact your local spray expert.

DIMENSIONS AND WEIGHTS

Tanl	kJet AA190	Tank Cleaner	A Extension Length* ft. (m)	B Overall Length in. (m)	Net Weight ^{**} lbs. (kg)
AA190AG (360° Model) tank cleaner with air motor	B.	AA190AG	3 (0.9)	54.25 (1.4)	14.0 (6.4)
	B	AA190AG	4 (1.2)	66.25 (1.7)	15.5 (7)
	A	AA190AG	6 (1.8)	90.25 (2.3)	18.5 (8.4)
AA190AG 360° Model) tank cleaner with electric motor		AA190E	3 (0.9)	48.88 (1.2)	14.0 (6.4)
	B A	AA190E	4 (1.2)	60.88 (1.5)	15.5 (7)
		AA190E	6 (1.8)	84.88 (2.1)	18.5 (8.4)
AA190E-EP 360° Model) ank cleaner with electric		AA190E-EP	3 (0.9)	51.88 (1.3)	21.5 (9.8)
explosion-proof noto	B B	AA190E-EP	4 (1.2)	63.88 (1.6)	23 (10.4)
	A	AA190E-EP	6 (1.8)	87.88 (2.2)	26 (11.8)
AA190DAG 180° Model) ank cleaner with air motor		AA190DAG	3 (0.9)	55 (1.4)	14.0 (6.4)
		AA190DAG	4 (1.2)	67 (1.7)	15.5 (7)
		AA190DAG	6 (1.8)	91 (2.3)	18.5 (8.4)

^{*}Extension lengths available from 0.33 ft. (0.1 m) to 10 ft. (3.0 m) $\,$

^{**}Add additional weight from the flange options' chart if not using the standard flange.



DIMENSIONS AND WEIGHTS

TankJet AA190 Spray Head	Model	Spray Coverage	Min. Tank Opening in. (mm)	L in. (mm)	W (Dia.) in. (mm)
	Standard	360°	3.75 (95.3)	3.25 (82.6)	3.2 (81.3)
W MIN. TANK OPENING	Small Dia.*	360°	2.81 (71.5)	3.25 (82.6)	2.81 (71.4)
W MIN. TANK OPENING	Directional	180°	4.5 (114.3)	5 (127)	4.35 (110.5)

^{*}The 3 in. sanitary flange (3SF) has a modified hub assembly that can fit through a 2.81 in. (71.5 mm) opening with nozzles oriented in vertical position.

FLANGE OPTIONS

Flange Type	Size	Sales Code	Net Weight lbs. (kg)**
Three-Prong (std.)	_	_	_
ASME _® 150#	3	3F	10.5 (4.8)
Raised Face Flange	4	4F	15.5 (7.0)
0	6	6F	24.5 (11.1)
Sanitary	3	3SF*	_
Tri-Clamp Flange	4	4SF	0.25 (0.1)
	6	6SF	3 (1.4)

For information on mounting kits and adapters, see page G6.

ORDERING INFORMATION

TANKJET AA190 TANK CLEANER



¹Add B after AA in the tank cleaner type and prior to nozzle type prefix for BSPT connections.

 $[\]ensuremath{^{**}}\xspace Add$ additional weight to tank cleaner if not using the standard flange.

²Motor: Specify AG for air, E for electric and E-EP for electric explosion-proof.

³Add H for high-pressure, leave blank for standard version.

⁴Add 3F, 4F or 6F for raised face flange. Add 3SF, 4SF or 6SF for sanitary tri-clamp flange. Leave blank for standard three-prong flange.

TANKJET YMD3 TANK CLEANER FEATURES AND BENEFITS

- Dependable and durable motor-driven units provide consistent, high-impact cleaning to remove the most stubborn residues
- Air/electric motors rotate solid stream nozzles in three directions to efficiently cover the entire tank
- Extension lengths available from 3.3 ft. (1 m) to 8.2 ft. (2.5 m)
- Reduces the need for dangerous and time-consuming manual tank cleaning
- Wide range of nozzles available to fit specific applications

SPECIFICATIONS

TankJet YMD3 Tank Cleaner				
Max. tank diameter:	30 ft. (9.1 m)			
Operating principle:	Motor-driven			
Flow rate:	8.6 to 37.5 gpm (32.6 to142 lpm)			
Operating pressure:	725 to 4350 psi (50 to 300 bar)			
Max. temperature:	176°F (80°C)			
Materials:	316 stainless steel, PTFE and fluororubber			
Inlet connection:	1/2" NPT and BSPT (F)			
Flange:	ASME _® , JIS, and sanitary options available			
Motor options:	Air, electric			
Optional accessories:	Strainers, recommended mesh size: 100 (150 micron) See page G2			

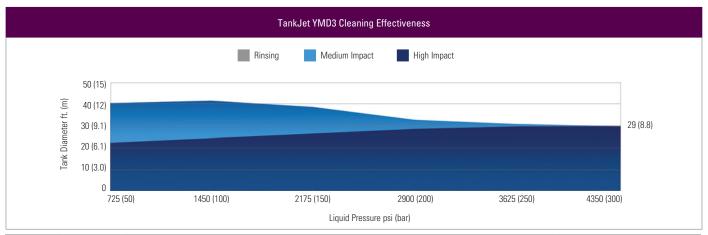
IDEAL FOR CLEANING:

- · Chemical reactors
- Food processing tanks and vats
- Pharmaceutical processing vessels
- Process tanks



DIMENSIONS AND WEIGHTS

DIVILIAGIONS AND WEIGHTS							
Model	Min. Tank Opening in. (mm)	L in (mm)	A Extension Length ft. (m)	B Overall Length in. (m)			
YMD3-A (Air Motor)	3.8 (95)	6.7 (170)	3.3 to 8.2 (1 to 2.5) in	A + 16.8 (426)			
YMD3-E (Electric Motor)	3.8 (95)	6.7 (170)	0.8 (0.25) increments	A + 14 (356)			
B MIN. TANK OPENING							



Model YMD3 Total Flow of Equal Capacity, gpm (Ip					
Nozzle	Capacity Size	725 psi (50 bar)	1450 psi (100 bar)	2900 psi (200 bar)	4350 psi (300 bar)
1/8MEG	0005	8.6 (32.6)	12 (45.5)	16.2 (61.2)	20.3 (77)
I/OIVIEG	0010	15.9 (60)	21.9 (82.8)	30.5 (115.5)	37.5 (142)

^{*}Note: Flow rates tabulated above include pressure drop through unit.

AIR MOTOR CYCLE TIME DATA

Air Air		Approx (rp	. Speed m)	Approx. Time for One Complete Cycle (min.)			
Pressure	Consumption	Liquid Pressure psi (bar)					ressure (bar)
psi (bar)	scfm (I/sec)	725 (50)	4350 (300)	725 (50)	4350 (300)		
6 (0.41)	2.3 (65)	3.6	4.7	10.3	7.9		
8 (0.55)	3.2 (91)	9.0	9.0	4.1	4.1		
10 (0.68)	4 (113)	11.5	11.6	3.2	3.2		

ELECTRIC MOTOR*CYCLE TIME DATA

Frequency @ 115 VAC	Speed (rpm)	Current (amps)	Power (watts)	Approx. Time for One Complete Cycle (minutes)
50 Hz	17	23	25	2.5
60 Hz	20	21	25	2

For lances, mounting kits, adapters and more, see page G6

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.

TANKJET 75 & 75H TANK CLEANERS FEATURES AND BENEFITS

- Ideal for high-impact cleaning applications, providing thorough, cost-effective cleaning of tanks, totes and IBCs
- Hygienic (H) models feature polished surfaces and enclosed gears, ideal for food, pharmaceutical, and dairy applications
- Fluid-driven with controlled nozzle rotation speed for optimal impact and cleaning efficiency
- Solid stream nozzles rotate in multiple axes on a 360° indexing pattern to provide complete coverage of the entire tank every 45 revolutions
- Simple, flow-through design is easy to maintain and can be rebuilt quickly and easily in about 5 minutes
- Two-nozzle and four-nozzle design provides excellent coverage and fast cleaning
- Tank cleaner is constructed of long-wearing materials and can be mounted permanently or moved from tank to tank
- Choice of low pressure or standard operation
- See case study on page C20

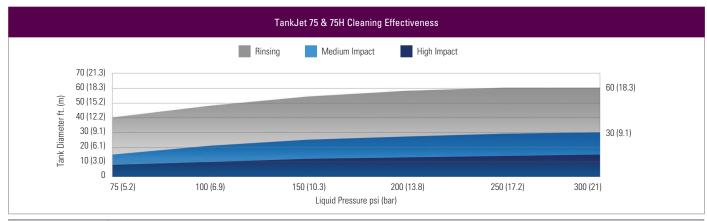
For lances, mounting kits, adapters and more, see page G6

SPECIFICATIONS

TankJet 75 & 75H Tank Cleaners				
Max. tank diameter:	30 ft. (9.1m)			
Operating principle:	Fluid-driven turbine			
Flow rate:	15 to 33 gpm (57 to 125 lpm)			
Operating pressure:	75 to 300 psi (5.2 to 21 bar)			
Max. temperature:	250°F (121°C)			
Materials:	316 stainless steel, PTFE and UHMWE-PE			
Rotation speed:	7 to 17 rpm			
Inlet connection:	3/4" NPT or BSPT (F), 1" sanitary flange			
Accessories:	3/4" TWD strainer, recommended mesh size: 200 (80 micron). See page G2			



- · Chemical containers
- Pharmaceutical tanks
- Dairy tanks and totes
- Process tanks
- · Food and beverage tanks



Model To	J75 & 75H	Elquid Flow Capacity, gpm (Ipm)					
No. of Nozzles	Capacity Size	75 psi (5.2 bar)	100 psi (6.9 bar)	150 psi (10.3 bar)	200 psi (13.8 bar)	250 psi (17.2 bar)	300 psi (21 bar)
2	234	_	-	17 (64)	20 (76)	22 (83)	24 (91)
Δ	234LP	12 (45)	14 (53)	17 (64)	-	-	_
	172	_	-	23 (87)	29 (110)	31 (117)	33 (125)
4	172LP	15.0 (56.9)	18.0 (68.0)	23 (87)	-	-	_
	125	_	-	15.0 (57)	18 (68)	20 (76)	21 (80)

DIMENSIONS AND WEIGHTS

TankJet 75 & 75H Tank Cleaners		Model	No. of Nozzles	Inlet Conn.	L in. (mm)	W in. (mm)	Min. Tank Opening in. (mm)	Net Weight Ibs. (kg)
W		75	_	Threaded	6.13 (156)	1.97 (50)	0.0 (70)	2.6 (1.2)
Internal Section Control of Contr	75	2	Sanitary flange	7.13 (181)	1.97 (50)	3.0 (76)	2.9 (1.3)	
		75H	2	Threaded	6.25 (159)	1.97 (50)	3.0 (76)	2.6 (1.2)
	MIN. TANK OPENING			Sanitary flange	7.25 (184)			2.9 (1.3)
W	\	75	4	Threaded	6.13 (156)	1 07 (50)	4.2 (107)	3 (1.4)
Section 1.	MIN. TANK OPENING	/5		Sanitary flange	7.13 (181)	1.97 (50)		3.3 (1.5)
		75H	4	Threaded	6.25 (159)	1.07 (E0)	4.2 (107)	3 (1.4)
				Sanitary flange	7.25 (184)	1.97 (50)		3.3 (1.5)

ORDERING INFORMATION

TANKJET 75 TANK CLEANER



 $[\]hbox{*Leave blank for NPT connection. Insert B for BSPT connection or SF for sanitary connection.}$

 $[\]ensuremath{^{**}}\mbox{Add LP}$ capacity size for low pressure version.

TANKJET 27500 AND 27500-R TANK CLEANING NOZZLE FEATURES AND BENEFITS

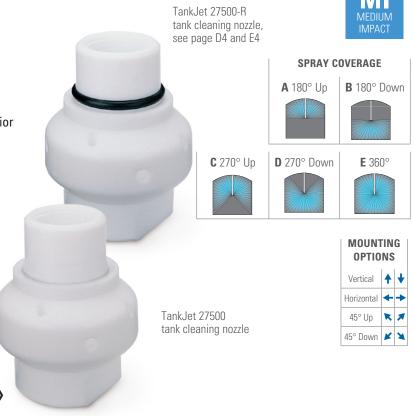
 With rotation driven by the reactionary force of the cleaning liquid, these nozzles provide excellent cleaning and rinsing and are especially well-suited for clean-in-place (CIP) systems

 Spray angles range from 180° to 360° and can be used to clean specific areas or the entire tank interior

 Made of corrosion- and chemical-resistant PTFE fluoropolymer resin, both models provide peak performance when used with debris-free liquid and deliver greater impact than static spray balls

 27500-R nozzles with removeable spray heads, 1/2 in. and 3/4 in. inlet connections, are also available in carbon-filled PTFE for improved thermal characteristics and higher mechanical strength. See page D4 and E4

· ATEX-certified versions available



SPECIFICATIONS

TankJet 27500 Tank Cleaning Nozzles				
Max. tank diameter:	25 ft. (7.6 m)			
Operating principle:	Fluid-driven reactionary force			
Flow rate: 125 to 391 gpm (475 to 1480 lpm)				
Operating pressure:	10 to 50 psi (0.7 to 3.4 bar)			
Max. temperature:	200°F (93°C)			
Materials:	PTFE fluoropolymer resin			
Inlet connection:	3" NPT or BSPT (F)			
Optional accessories:	Strainers, recommended mesh size: 100 (150 micron) See page G2			

IDEAL FOR CLEANING:

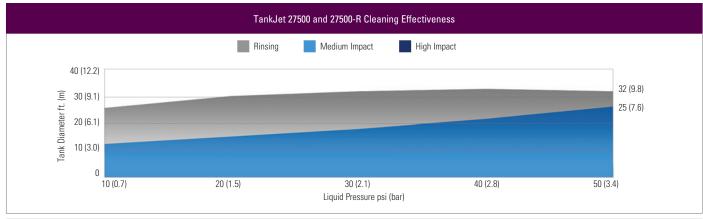
- · Broke chests
- · Pharmaceutical tanks
- Chemical tanksPCB washers
- · Process tanks

For lances, mounting kits, adapters and more, see page G6

DIMENSIONS AND WEIGHT

Model	Inlet Conn. in.	W in. (mm)	L in. (mm)	F (Flats) in. (mm)
27500	3	6.88 (174.6)	5.88 (149.2)	3.88 (98.4)
	F	W-		

Additional sizes available: Page D4 - 3/4, 1 and 2 in. conn. Page E4 - 3/8 and 1/2 in. conn.



Model 27500		Orifice Dia.		Max. Tank Dia.					
Inlet Conn. Size	Capacity Size	in. (mm)	10 psi (0.7 bar)	20 psi (1.5 bar)	30 psi (2.1 bar)	40 psi (2.8 bar)	50 psi (3.4 bar)	ft. (m)	
3	250	0.390 (9.9)	125 (475)	177 (700)	217 (805)	250 (985)	280 (1065)	25 (7.6)	
	300	0.422 (10.7)	150 (570)	212 (840)	260 (965)	300 (1180)	335 (1280)	25 (7.6)	
	350	0.484 (12.3)	175 (665)	247 (975)	303 (1130)	350 (1380)	391 (1480)	25 (7.6)	

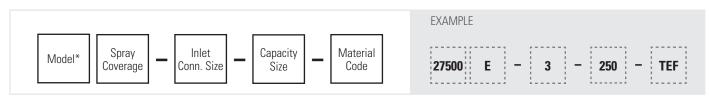
Suggested optimum operating range: 20 to 40 psi (1.5 to 2.8 bar).

ADDITIONAL SIZES AVAILABLE

Page D4 - 3/4, 1 and 2 in. conn. Page E4 - 3/8 and 1/2 in. conn.

ORDERING INFORMATION

TANKJET 27500 TANK CLEANING NOZZLES



^{*}Add B prior to nozzle size for BSPT connections.

TANKJET 16 TANK CLEANING NOZZLE FEATURES AND BENEFITS

- Fluid-driven turbine rotates spray head at slow speeds to provide increased dwell time on tank surface compared to free spinning units
- Similar in design and appearance to static spray balls, these rotating units ensure full coverage and effective impingement of cleaning solution on tank walls
- The TankJet 16 produces solid stream sprays and easily passes through a 3 in. Schedule 40 pipe
- Suitable for clean-in-place (CIP) or portable installation
- Spray head is easily removed for inspection and maintenance

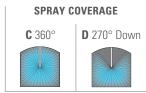
For lances, mounting kits, adapters and more, see page G6

SPECIFICATIONS

TankJet 16 Tank Cleaning Nozzle						
Max. tank diameter:	24 ft. (7.3 m)					
Operating principle:	Fluid-driven turbine					
Flow rate:	36 to 76 gpm (136 to 288 lpm)					
Operating pressure:	50 to 200 psi (3.4 to 13.8 bar)					
Rotation speed:	3 to 15 rpm					
Max. temperature:	250°F (121°C)					
Materials:	316 stainless steel and PTFE					
Inlet connection:	1-1/2" NPT or BSPT (F)					
Optional accessories:	Strainers, recommended mesh size: 20 (840 micron) See page G2					





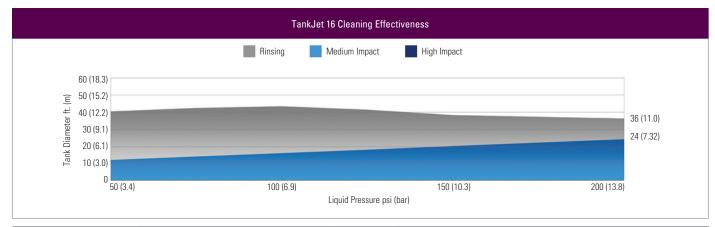








- Brewery tanks
- Pharmaceutical tanks
- Chemical mixers/ blenders
- Totes/IBCs
- Food processing tanks
- · Wine tanks



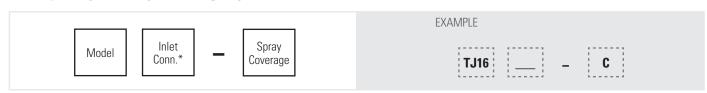
Model	Spray Coverage	Liquid Flow Capacity gpm (lpm)									
		50 psi (3.4 bar)	70 psi (4.8 bar)	90 psi (6.2 bar)	100 psi (6.9 bar)	120 psi (8.3 bar)	140 psi (9.7 bar)	160 psi (11.0 bar)	180 psi (12.4 bar)	200 psi (13.8 bar)	
TJ16	Н	36 (136)	43 (163)	49 (185)	52 (197)	57 (216)	61 (231)	65 (246)	69 (261)	73 (276)	
	C, D, G	40 (151)	47 (178)	53 (201)	55 (208)	60 (227)	65 (246)	69 (261)	74 (280)	76 (288)	

DIMENSIONS AND WEIGHTS

TankJet 16 Tank Cleaning Nozzle	Model	L in. (mm)	W in. (mm)	Min. Tank Opening in. (mm)	Net Weight Ibs. (kg)
	TJ16, threaded	8.98 (228)	2.82 (77)	3 (76)	4.75 (2.1)
MIN. TANK OPENING	TJ16, sanitary	10.54 (268)	2.82 (77)	3 (76)	5.4 (2.4)

ORDERING INFORMATION

TANKJET 16 TANK CLEANING NOZZLE



^{*}Leave blank for NPT connection. Insert B for BSPT connection or SF for sanitary connection.

Food Ingredient Manufacturer Cuts Tank Cleaning Time by 75% and Offsets Equipment Cost in Less Than a Week

PROBLEM:

A leading producer of spices and seasonings needed to thoroughly clean the interior surfaces of its mixing tanks between batches. Manually cleaning the powder residue from the blenders with high pressure hoses and brushes took workers an hour or more and produced inconsistent results. The cleaning process was a significant labor expense since three batches per shift were being produced during three shifts per day. The production downtime also resulted in significant lost revenue.

Call your local spray expert to explore your tank cleaning options.

SOLUTION:

Spraying Systems Co.'s TankJet® 75 tank cleaner solved the customer's problem. Two TankJet 75 units, positioned in opposite corners of the blender, provide effective cleaning. Shadowing, caused by the ribbon blade and other internal obstructions, is overcome by the use of two tank cleaners to ensure all surfaces are thoroughly cleaned. Hot water is pumped to the tank cleaners at 75 psi (5.2 bar) with a flow rate of 15 gpm (57 lpm). The powerful impact of the water jets ensures repeatable results with every cleaning cycle.

RESULTS:

The automated-tank cleaning process has saved an estimated US\$25,000 in labor expense. In addition, TankJet units have reduced the time required for cleaning the mixers from one hour to 20 minutes. This reduction in downtime allows for the production of one additional batch of spices per shift. Together, these factors paid for the investment in tank cleaning equipment in less than one week. The customer reports savings of more than US\$22,000 annually and a payback period of just over three months per tank cleaner.



Ribbon blender being cleaned Re



Results



TankJet 75 tank cleaners are installed in opposite corners of the blender to ensure thorough cleaning of all interior surfaces