

TANK DIA.
UP TO **40 ft.** (12.2 m)

TANKJET® AA190 TANK CLEANER

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), stainless steel non-lube air (AS) or electric (E) motors
 - Standard CGTEF tank cleaner versions that operate at pressures up to 1000 psi (69 bar)
 - Polyethylene bushings operate at pressures up to 500 psi (34.5 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
Max. tank diameter:	25 ft. (7.6 m)
Operating principle:	Motor-driven
Flow rate:	3.1 to 44 gpm (11.8 to 167 lpm)
Operating pressure:	100 to 1000 psi (6.9 to 69 bar)
Max. temperature:	200°F (93°C)
Materials:	Seals – PTFE, UHMWP, VITON, EPDM, or Kalrez All other metallurgy – 316 stainless steel
Inlet connection:	1" NPT or BSPT (F)
Motor options:	Air (lubricated and non-lubricated) or electric
Optional accessories:	Strainers, recommended mesh size: 100 (150 micron) See page G2



TankJet AA190E
tank cleaner with
electric motor



TankJet AA190DAG
tank cleaner
with air motor



HI
HIGH
IMPACT

SPRAY COVERAGE

360°



180°



MOUNTING OPTIONS

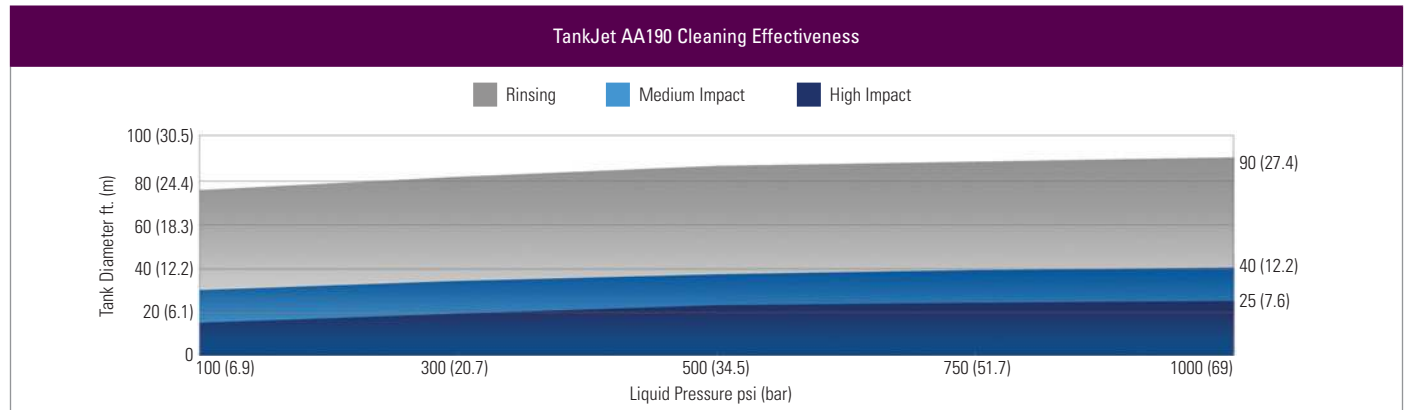
Vertical	↑	↓
Horizontal	←	→
45° Up	↖	↗
45° Down	↘	↙

IDEAL FOR CLEANING:

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



PERFORMANCE DATA



Model AA190 & AA190D			Liquid Flow Capacity gpm (lpm)* Liquid Inlet Pressure						
Hub Type	Nozzle Type	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)	750 psi (51.7 bar)	1000 psi (69 bar)
2-Nozzle Hub	1/4MEG or H1/4U-316SS	0010	3.1 (11.7)	4.4 (16.6)	5.4 (20)	6.2 (23)	6.9 (26)	8.5 (32)	9.8 (37)
		0015	4.7 (17.8)	6.6 (25)	8.1 (31)	9.4 (36)	10.5 (40)	12.9 (49)	14.9 (56)
		0020	6.2 (23)	8.8 (33)	10.7 (41)	12.4 (47)	13.9 (52)	17 (64)	19.6 (74)
		0025	7.7 (29)	10.9 (41)	13.3 (50)	15.4 (58)	17.2 (65)	21 (80)	24 (92)
		0030	9.1 (34)	12.9 (49)	15.8 (60)	18.2 (69)	20 (77)	25 (94)	29 (109)
		0035	10.5 (40)	14.8 (56)	18.2 (69)	21 (79)	23 (89)	29 (109)	33 (126)
		0040	11.8 (45)	16.7 (63)	20 (77)	24 (89)	26 (100)	32 (122)	37 (141)
		0050	14.2 (54)	20 (76)	25 (93)	28 (108)	32 (120)	39 (147)	45 (170)
		0060	16.4 (62)	23 (88)	28 (108)	33 (124)	37 (139)	45 (170)	--
		0070	18.3 (69)	26 (98)	32 (120)	37 (139)	41 (155)	--	--
		0080	19.9 (75)	28 (107)	34 (130)	40 (151)	44 (168)	--	--
4-Nozzle Hub	1/4MEG or H1/4U-316SS	0010	6.1 (23)	8.6 (33)	10.6 (40)	12.2 (46)	13.6 (52)	16.7 (63)	19.3 (73)
		0015	8.9 (34)	12.7 (48)	15.5 (59)	17.9 (68)	20 (76)	24 (93)	28 (107)
		0020	11.4 (43)	16.1 (61)	19.7 (75)	23 (86)	25 (96)	31 (118)	36 (136)
		0025	13.7 (52)	19.3 (73)	24 (90)	27 (104)	31 (116)	37 (142)	43 (164)
		0030	15.6 (59)	22 (84)	27 (102)	31 (118)	35 (132)	43 (162)	--
		0035	17.6 (67)	25 (94)	30 (115)	35 (133)	--	--	--
		0040	19.3 (73)	27 (103)	--	--	--	--	--
6-Nozzle Hub	1/4MEG or H1/4U-316SS	0005	4.8 (18.1)	6.8 (26)	8.3 (31)	9.6 (36)	10.7 (41)	12.9 (49)	15.1 (57)
		0008	7.3 (28)	10.3 (39)	12.6 (48)	14.6 (55)	16.3 (62)	19.7 (74)	23 (87)
		0010	8.6 (33)	12.2 (46)	14.9 (56)	17.2 (65)	19.2 (73)	23 (88)	27 (103)
		0015	11.4 (43)	16.1 (61)	19.7 (75)	23 (86)	25 (96)	--	--

Pressure drop through the unit in the shaded area should be evaluated when sizing pumps. Call your local spray expert for application assistance.

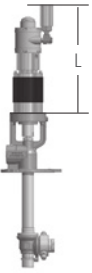
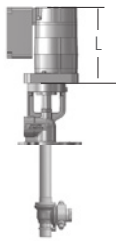
* Nozzles ordered separately



TANK DIA.
UP TO **40 ft.** (12.2 m)

TANKJET® AA190 TANK CLEANER

MOTOR OPTIONS

TankJet AA190 Motors ²	Tank Cleaner	Length in. (mm)	Weight lbs. (kg)*	Sales Code
AA190AG lubricated tank cleaner with air motor 	AA190AG**	7.9 (114.1)	25.5 (11.6)	AG
AA190AS tank cleaner with stainless steel, non-lube air motor 	AA190AS**	13.5 (343)	20.0 (9.1)	AS
AA190E tank cleaner with electric motor 	AA190E	6.4 (162.6)	28.2 (12.8)	E (120V)
				EA (240V)

*Weight includes the 3-prong flange option.

**For European ATEX standard version contact your local spray expert.

LUBRICATED (AG) & STAINLESS STEEL (AS)

AIR MOTOR

CYCLE TIME DATA

Air Pressure	Air Consumption	Approx. Speed (rpm)		Approx. Time for One Complete Cycle (min.)	
		Liquid Pressure psi (bar)			
psi (bar)	scfm (l/min)	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

FLANGE OPTIONS

Flange Type ⁴	Size	Net Weight lbs. (kg)**	Sales Code
Adjustable Sanitary Flange for Tanks with Tri-Clamp Fitting 	3*	4.8 (2.2)	3SFAJ
	4	5.2 (2.4)	4SFAJ
	6	8 (3.6)	6SFAJ
Adjustable Three-Prong Flange 	—	5.5 (2.5)	3PAJ
Adjustable Flange for Tanks with 150# Connections 	3*	15.6 (7.1)	3RFAJ
	4	20.4 (9.2)	4RFAJ
	6	30.6 (13.9)	6RFAJ
Ball Swivel Adjustable Flange 	4	23.2 (10.5)	4RFSAJ
	6	33.2 (15.1)	6RFSAJ
Three-Prong 	—	3.4 (1.5)	3P
ASME [®] 150# Raised Face Flange 	3*	13.7 (6.2)	3RF
	4	18.5 (8.4)	4RF
	6	28.8 (13)	6RF
Sanitary Tri-Clamp Flange 	3*	2.9 (1.3)	3SF
	4	3.7 (1.7)	4SF
	6	6.2 (2.8)	6SF

*The 3SF and 3RF flanges require the small diameter spray head.

**Including weight of flange and inlet body.

ELECTRIC 120V (E) & 240V (EA)

CYCLE TIME DATA

Motor Type	Frequency	Speed (rpm)	Current (amps)	Power (watts)	Approx. Time for One Complete Cycle (min.)
Electric (E) 120V	50 Hz	3.1	.39	41	11
	60 Hz	3.8	.33	34	9
Electric (EA) 240V	60 Hz	3.2	.33	79	10



EXTENSION OPTIONS

Length* ft. (mm)	Sales Code
.66 (201)	.66
1 (305)	1
1.5 (457)	1.5
2 (610)	2
2.5 (762)	2.5
3 (914)	3

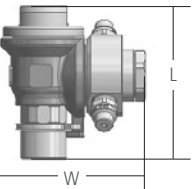
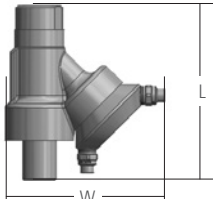
Length* ft. (mm)	Sales Code
4 (1219)	4
5 (1524)	5
6 (1829)	6
8 (2438)	8
10 (3048)	10

*More options available contact your spray specialist

BUSHING AND SEAL MATERIAL OPTIONS

Material	Max. Operating Pressure psi (bar)	Sales Code
CGTEF and EPDM	1000 (69)	TE
CGTEF and Viton		TV
CGTEF and Kalrez		TK
Food Contact UHMWPE and EPDM	500 (34.5)	FC
UHMWPE and EPDM (Teflon-Free)		PE

DIMENSIONS AND WEIGHTS

TankJet AA190 Spray Head	Model	No. of Nozzles	Spray Coverage	Min. Tank Opening in. (mm)	L in. (mm)	W (Dia.) in. (mm)	Sales Code
 	Standard	2, 4, 6	360°	3.75 (95.3)	3.25 (82.6)	3.2 (81.3)	—
	Small Dia.*	2	360°	2.81 (71.5)	3.25 (82.6)	2.81 (71.4)	S
 	Directional	2, 4, 6	180°	4.5 (114.3)	5 (127)	4.35 (110.5)	D

*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.

For VeeJet® spray nozzle tips, see
Industrial Hydraulic catalog, sec. C

ORDERING INFORMATION

TANKJET AA190 TANK CLEANER

TANK CLEANER									
Model ¹	Hub Type ²	Motor ³	Flange Type ⁴	—	Extension Length	—	No of Nozzles ⁵	—	Bushing Seals ⁶
EXAMPLE									
AAB190	S	AG	3RF	—	1	—	2	—	TE

¹Add B after AA in the model prefix for BSPT connections.

²Add S for small spray head, D for directional or leave blank for standard.

³Motor: Specify AG for air, E for 120V or EA for 240V electric or AS for air non-lubricated, stainless steel air motor

⁴See flange options table

⁵Add 2, 4 or 6 for 2, 4, or 6 nozzle hubs. **Order nozzles separately.**

⁶See bushing and seal material options table