

Product Data Sheet

Product : SC 20A - HP

Type : Tank Cleaning Machine

Maker : Scanjet

The Type SC 20RAHP (0-2,000 PSIG) automated tank cleaning machine provides 360° impact indexed coverage for the cleaning of the inside of tanks and process vessels.

Industries

The Type SC 20RAHP is a highly versatile high pressure tank cleaning machine and is applicable in most all small type of tanks for process, storage, and transportation.

- Totes and IBC's
- Wine, Beer, and Whiskey Barrels
- Underground Storage Tanks
- Paint Mixing Tanks

Operational

The Type SC 20RAHP machine creates a pattern matrix similar to a ball of twine (see cleaning pattern simulation in the lower left hand corner of this page). A complete pattern is established when 49 axial revolutions of the body have been completed. During the process of this pattern build out, 4 cycles are established with each cycle increasing the density of the pattern matrix.

User Benefits

- High Jet-Stream Impact
- Reduced Cleaning Times
- Reduced Effluent Generation
- Reduced Energy Costs
- Controllable Axial Rotation

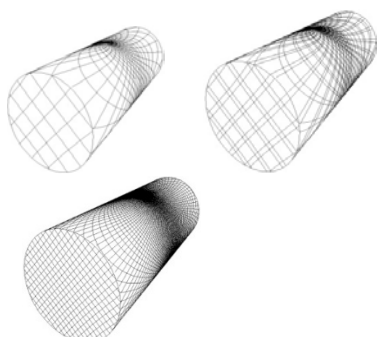
Type SC20RA - Part Number Designations

Model	Qty. Nozzles	Nozzle Type	Nozzle Size	Flange Type	Tube Length
SC20RAHP	2	1	C10	1	36
Part Number = SC20RAHP-2-1-C10-1-36					
SC20RAHP	4	1	C10	1	48
Part Number = SC20RAHP-4-1-C10-1-48					

Nozzle Designations	
Nozzle Type	Nozzle Size
1	C10; C15; C20; C25; C30; C35; C40; C50; C60; C70; C80
Mounting Flange Arrangements	
Flange Type	Description
1	Standard; 3 prong; 316LSS
2	3.00" 150# ANSI RF; 316LSS
2a	4.00" 150# ANSI RF; 316LSS
3	3.00" Tri-Clamp; 316LSS
3a	4.00" Tri-Clamp; 316LSS
3b	6.00" Tri-Clamp; 316LSS
Tube Length Designations	
Tube Type	Description
36	36.00 inches (914.40mm) - Nominal
48	48.00 inches (1219.20mm) - Nominal
72	72.00 inches (1829.00mm) - Nominal

Custom lengths are available by contacting engineering with your request.

Cleaning Pattern Simulation



Typical - Horizontal Cylindrical Tank



DRIVE UNIT



NOZZLE HEAD
2 & 4 NOZZLE
CONFIGURATIONS



COMPLETE ASSEMBLY

Specifications - Summary

Materials of Construction (As Standard):

- Wetted Parts
 - 316LSS
 - PTFE
- Other Parts
 - See manual for parts detail

Weights & Packaged Dimensions

- Tube Type 36
 - Flange Type 1&3 : 14 lbs. (6.4 kg)
 - Flange Type 2 : 24.50 lbs. (11.1 kg)
 - Flange Type 2a : 29.50 lbs. (13.4 kg)
 - Flange Type 3a : 14.25 lbs. (6.5 kg)
 - Flange Type 3b : 17.00 lbs. (7.7 kg)
- Tube Type 48
 - Flange Type 1&3 : 15.5 lbs. (7.0 kg)
 - Flange Type 2 : 26.00 lbs. (11.8 kg)
 - Flange Type 2a : 31.00 lbs. (14.1 kg)
 - Flange Type 3a : 15.50 lbs. (7.0 kg)
 - Flange Type 3b : 18.50 lbs. (8.4 kg)
- Tube Type 72
 - Flange Type 1&3 : 18.50 lbs. (8.4 kg)
 - Flange Type 2 : 29.00 lbs. (13.2 kg)
 - Flange Type 2a : 34.00 lbs. (15.4 kg)
 - Flange Type 3a : 18.75 lbs. (8.5 kg)
 - Flange Type 3b : 21.50 lbs. (9.8 kg)

Lubrication:

- Flow-Through (Media Lubricated)

Pressure Range - Fluid:

- 0-2,300 PSI (158.62 Bar)

Pressure Range - Air:

- 0-10 PSIG (0-0.68 Bar)

Consumption

- 1.4 - 3.1 SCFM (40-88 l/min.)

Temperature Range:

- Static : 300°F (148.89°C)
- Operational : 200°F (93.33°C)

Inlet Connection Type:

- 1.00" NPT(F) and 1.00" BSP(F) as Standard
- Others On Request

Minimum Tank Opening Requirement & Turn Radius

- Tank Opening : 2.76" (70mm)
- Turning Radius : 3.82" (97mm)

Surface Finish:

- ≥ 25 Ra μ (Micro Inch) - External as standard
- ≤ 25 Ra μ (Micro Inch) - Optional

Connections:

- See dimensional diagram for standards

Gear Ratio (Fixed to Moving Gear):

- 47/49 as standard (47 on hub with 49 on shaft)

Packaged Dim. & Wt.

7"Øx40"(24.00 lbs.)
7"Øx40"(34.50 lbs.)
8"Øx40"(39.50 lbs.)
8"Øx40"(24.25 lbs.)
8"Øx40"(27.00 lbs.)
7"Øx52"(25.50 lbs.)
7"Øx52"(36.00 lbs.)
8"Øx52"(41.00 lbs.)
8"Øx52"(25.50 lbs.)
8"Øx52"(28.50 lbs.)
7"Øx96"(46.00 lbs.)
7"Øx96"(46.00 lbs.)
8"Øx96"(48.00 lbs.)
8"Øx96"(48.75 lbs.)
8"Øx96"(54.50 lbs.)

