

SAT "No-metal parts" Pumps

Comparison Chart - model SAT130Plus



Comparison with main competitors



Vs.







44 good reasons for choosing SAT130 Plus Pump

	IWAKI	SAT
	FS-30HT1/T2	SAT 130Plus
Bellow	YES	YES (Patent SAT)
Metal-Free PTFE/PFA liquid path	NO	YES
Ergonomic design	NO	YES (Patent SAT)
PLC Schedule maintenance	NO	YES (Patent SAT)
Leak-proof, machined design	NO	YES
No elastomer O-rings, no leaks, never retorque	NO	YES
No lubrication in shift mechanisms	N\A	YES
No electric motors, which generate heat	N\A	YES
Pneumatic Logic™ minimizes pulsation and vibration	N\A	YES
Various liquid connection options	NO	YES
Safe, leak-free operation due to no-metal design	YES	YES
Ceramic in air shuttle valve	N\A	YES



	IWAKI	SAT
	FS-30HT1/T2	SAT 130Plus
Minimal parts for durable design	YES	YES
Class 100 cleanroom assembly, testing, and packaging	YES	YES
Ultrapure cnc machine	NO	YES
Easy to install and service	YES	YES
Proven reliable to 200 million+ cycles	YES	YES
No preventative maintenance during one year warranty	YES	YES
External Tube	YES	NO
External Tube	YES	NO (Screw Patent SAT)
Soppressor inside check valve	NO	YES (Patent SAT)
Constant flow	NO	YES
Special design check valve	NO	YES (Patent SAT)
Risk metallic contamination	YES	NO (Patent SAT)
Risk air line contamination	YES	NO
Max Flow	30 lt/min	30 lt/min
Max Temperature	180°C	210°C
Max Pressure	5 bar	4,5 bar
Dry Suction	1 mt	1,2 mt
Shuttle	N\A	YES (Ceramic)
Air Max	5 bar	4,5 bar
DE x DI Tubing	1/4" npt	1/4" npt
Piping for fluid	19 x 15, 8 (3\4")	12,7 (1\2")
Weight		7 Kg
Dimensions	390 x 150 x 180	280 x 185 x 120
Compact	NO	YES (Patent SAT)
Handle	NO	YES (Patent SAT)
Ultrapure	YES	YES
Repair service inline	NO	YES
Bellow long lifetime	NO	YES (Patent SAT)
Price	High	Lower
Maintenance cost	High	Lower
Warranty one year	YES	YES
Local Assistance	NO	YES