



Oxifree Polymelt 50 A/I Rev 9 Datasheet 2026

The Polymelt 50 A/I was designed to offer the following advantages:

- Greater levels of sustained working application of the Oxifree TM198 material
- ATEX and IECEx Certified for use in Zone 2-22 environments
- The machines have been designed to go in a handy transport and storage trolley
- Features an explosion proof control panel to control flow pressure and pump operation at point of application
- Machines can operate all day, but do not require removal of material or cleaning when finished
- Pressurised and purged enclosure with automatic siren and beacon to warn of any purge loss for use in hazardous environments

Specifications

Hopper Capacity	22Kg / 50lbs
Operating Temperature	10 to 180°C / 50 to 356°F
Melt Rate with Pre-Melt Grid	41Kg/hr / 90lb/hr
Pump Rate per minute	8.5cc Gear = 0.5Kg / 1.1lb
Gear Pump Standard	8.5cc
Hose Output Zones	2 (1 in operation at any time)
Maximum Working Hydraulic Pressure	68 bar (1000psi)
Minimum Hose Burst Pressure	510 bar (7310 psi)
Applicator Maximum Hydraulic Pressure	103 bar (1500psi)
Maximum PRV Set-point Pressure	40 bar (580psi)
Operating Nozzle Output Pressure	0.75 bar (11 psi)
Temperature Control Stability	±1°C / 1°F

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Electrical Configurations	Standard: 220/240 VAC 1 Phase 50/60Hz 30Amp Options: 380/415 VAC 3 Phase 50/60Hz 16Amp (with Neutral Line) 220-240 VAC 3 Phase 50/60Hz 16Amp (without Neutral Line) CE Standard conformity
Working Viscosity	500-50,000 cps

Dimensions of Machine mounted in enclosure trolley	
Height (H)	966mm / 38in
Depth (D)	1221mm / 48in
Width (W)	698 mm / 27.5in
Weight (Empty machine)	216kg / 476lbs
Hose Length	15m/50ft

ATEX/IECEX Zone 2-22 Safety specifications		
Conformity standards	- EN ISO 12100:2010 design - EN 809:1998+A1:2009 safety requirements - EN 61000-6-2:2005 - EN 61000-6-4:2007+A1:2011 - EN 60079-0:2009 requirements - EN 60079-2:2007 pressurized enclosure - EN61241-4:2006 combustible dust - EN60079-31:2009 ignition protection by enclosure - EN60079-14:2008 in Hazardous Environments - EN 292-1:1991 methodology - EN 563:1994 - EN 60204-1:2006 +A1:2009	- Safety of machinery – General principals of - Pumps and pump units for liquids – Common - Electromagnetic compatibility – Generic standards immunity for industrial environments - Electromagnetic compatibility – Generic emission standard for industrial environments - Explosive atmospheres - Equipment general - Explosive atmospheres – Protection by - Electrical apparatus for use in the presence of - Explosive atmospheres – Equipment dust - Explosive Atmospheres – Electrical Installations in Hazardous Environments - Safety of Machinery – Basic terminology, - Temperatures of Touchable Surfaces - Electrical Equipment of Machines

	- EN 50081-2:1994 General Immunity Standard – Residential, light industrial environment - EN 50082-2:1995 General Immunity Standard – Industrial environment
Purge System	½ Inch NPT air fitting, Manufactured to EN60079-0, EN60079-2, EN61241-0, EN61241-4 standards
Purge rate (initial enclosure pressurization)	8-10cfm @ 60psi
Enclosure construction	IP66 rated stainless steel with anti-static wheels, EX Standards: EN60079-18, EN60079-11 FM Pressurized electrical equipment for use in Hazardous locations Class 3000, Class 3620 UL Certified: PURGING AND PRESSURIZING CONTROLS AND ACCESSORIES FOR USE IN HAZARDOUS LOCATIONS (RFPW,RFPW7)
Pressure release rate	7-10psi per minute
Audible and visible warnings	Purge loss Alarm siren and flashing beacon
Electrical	EN670079-10, EN61241-10, ATEX CAT 3G and 3D Compliant
Manual override	Key operated