

TROUBLE SHOOTING

PROBLEM	CAUSE	REMEDY
Compressor fails to start	Mains power or Control voltage not available.	§ Check incoming power supply. § Check the control circuit fuse. § Check the transformer secondary windings for the control voltage.
	Defective Star / Delta timer.	§ Change Star / Delta timer.
Machine shuts down periodically	High airend temperature.	Top up coolant.
	Motor overload.	§ Set overload to correct value and switch to manual reset.
	Belt stretch protection (when fitted).	Change belt.
	Line voltage variation.	§ Ensure voltage does not drop below 10% on start up and 6% running.
High current draw	Compressor operating above rated pressure.	Set pressure to correct rating for machine.
	Separator cartridge contaminated.	Change air filter, and separator cartridge.
	Low voltage.	§ Ensure voltage does not drop below 10% on start up and 6% running.
	Unbalanced voltage.	Correct incoming supply voltage.
	Damaged airend.	† Change Airend.
Low current draw	Air filter contaminated.	Change air filter.
	Compressor operating unloaded.	Set pressure to correct rating for machine.
	High voltage.	Reduce site voltage to correct operating voltage.
	Defective inlet valve.	† Fit inlet valve service kit.
High discharge pressure	Defective or incorrect pressure switch setting.	Replace or set pressure to correct rating for machine.
	Load solenoid valve defective.	† Fit load solenoid service kit.
	Blowdown valve defective.	† Fit blowdown solenoid service kit.
	Inlet valve malfunction.	† Fit inlet valve service kit.
Low system air pressure	Separator cartridge contaminated.	Fit new Separator cartridge.
	Incorrect pressure switch setting.	Set pressure to correct rating for machine.
	Minimum pressure valve malfunction.	† Fit Minimum pressure valve service kit.
	Load solenoid valve defective.	† Fit load solenoid service kit.
	Blowdown valve defective.	† Fit blowdown solenoid service kit.
	Drive belt slipping.	Fit new belt and tensioner.
	Air system leaks.	† Fix leaks.
	Inlet valve malfunction.	† Fit inlet valve service kit.
System demand exceeds compressor delivery.	Reduce demand or install additional compressor.	
Safety valve blows when compressor goes on load.	MPV STUCK CLOSED.	Strip MPV, examine and repair if necessary.
	SAFETY VALVE FAULTY	Check the setting of the safety valve and the rated pressure.

NOTES:

§ Must be carried out by a competent electrician.

† This work is recommended to be carried out only by a competent compressor specialist

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Compressor trips due to over temperature	Compressor operating above rated pressure.	Set pressure to correct rating for machine.
	Package pre-filter blocked.	Clean / replace package pre-filter.
	Cooler blocked.	Clean cooler.
	Missing or incorrectly fitted enclosure panels	Ensure that all enclosure panels are correctly fitted
	Low coolant level.	Top up coolant and check for leaks.
	High ambient temperature.	Re-site compressor.
	Restricted cooling air flow.	Ensure correct air flow to compressor.
Excessive coolant consumption	Separator cartridge leak.	Fit new Separator cartridge.
	Blocked separator cartridge drain.	† Remove fittings and clean.
	Compressor operating below rated pressure.	Set pressure to correct rating for machine.
	Coolant system leak.	† Fix leaks.
Excessive noise level	Air system leaks.	† Fix leaks.
	Airend defective.	† Change Airend.
	Drive belt slipping.	Replace belt and tensioner.
	Motor defective.	† Replace motor.
	Loose components.	† Retighten loose items.
Shaft seal leaking	Defective shaft seal.	† Fit Airend shaft seal kit.
Pressure relief valve opens	Defective switch or incorrect pressure switch setting.	Replace or set pressure to correct rating for machine.
	Minimum pressure valve malfunction.	† Fit Minimum pressure valve service kit.
	Load solenoid valve defective.	† Fit load solenoid service kit.
	Blowdown valve defective.	† Fit blowdown solenoid service kit.
	Inlet valve malfunction.	† Fit inlet valve service kit.
Black residue on belt guard/cooler box	Drive belt slipping.	Replace belt and tensioner.
	Pulleys misaligned.	Re-align pulleys.
	Worn pulleys.	† Replace pulleys and belt.
	Gas strut failed.	Replace belt and tensioner.
DRYER OPTION		
High Dew Point (Indicator Red)	Dryer compressor or fan failed.	Check electrical supply and repair as required.
	Low refrigerant charge.	Check for leaks.
	High pressure switch tripped.	Check condenser coil for debris. Check fan operation. Clean / repair as required. Reset manual switch.
Low Dew Point (Indicator Blue) OR Compressor runs unloaded with no system pressure	HGBV out of adjustment / defective.	Adjust valve or replace as required. Never adjust thermal expansion valve. It has been factory set
Water Down stream of dryer (Indicator OK)	Restricted / defective drain valve.	Clean / replace drain valve. Clean / replace condensate check valves.

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