


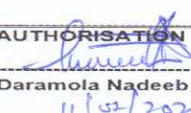


Brabender Alarms & Troubleshooting Guide

1	Weight Signal fault	Missing weight signal (Loadcell fault)	Examine the load cell its cable and termination. Find and eliminate external sources of interference. Contact the service department of the manufacturer.
2	Refill Fault	Fill level not reached after calculated expected time has elapsed.	Check the refill valve and rotary valve condition Check that material is available in the hopper. (You may need to tap the day bin) Check the control of the shut-off device on the hopper inlet. Contact the service department of the manufacturer.
3	Underload	Occurs when the feeder in gravimetry discharge mode and fill level < underload	Check the refill equipment. Check the control of the shut-off device on the hopper inlet. Contact the service department of the manufacturer.
4	Overload	Occurs when the feeder in gravimetry discharge mode and fill level > overload	Reduce the parameter "filling level maximum". Adjust the refill equipment (reduce product flow). Contact the service department of the manufacturer.
5	Control Difference Positive	Material under-dosage	Carry out "check max. output". Adjust the parameter "control adaptation" to the feeding conditions. Contact the service department of the manufacturer.
6	Control Difference Negative	Material over-dosage	Carry out "check max. output". Adjust the parameter "control adaptation" to the feeding conditions. Contact the service department of the manufacturer.
7	Speed Maximum	Occurs when the feeder in gravimetry discharge mode and fill level < underload	Check that material is available in the hopper. (You may need to tap the hopper) Adjust the parameter "control adaptation" to the feeding conditions. Check parameter "Max Output" and check signal cabling.
8	Speed Minimum	Occurs when the feeder in gravimetry discharge mode and fill level < underload	Enter a lower setpoint. Adjust the parameter "control adaptation" to the feeding conditions. Check parameter "Min Output" and check signal cabling.
9	MM Error	Error in Memory Module	Contact the service department of the manufacturer.
10	AT Error	Auto-tare error. This occurs when an error is encountered due to taring operation.	Discharge the feeding device and possibly clean the feeding belt. Check belt for settings, tension and alignment. Contact the service department of the manufacturer.
11	Softstart Error	An error has occurred during softstart sequence.	Contact the service department of the manufacturer.
12	AV Error	Active filter protection against external disturbances has been violated.	Find and eliminate external sources of interference. Adjust the parameter "control adaptation" to the feeding conditions. Contact the service department of the manufacturer.
13	CM Error	Error due to "check max" operation	Check the feeding device Find and eliminate external sources of interference. Carry out "check max" once again. Then contact service department.
14	FC Error	Drive controller has malfunction	Note the error code and contact service department.
15	Speed Coriolis	Speed monitoring fault	If motor does not run, you to check the motor control and fix. Check speed sensor Contact the service department of the manufacturer.
16	User defined		
17	User Defined		
18	CO Error	Error in data transmission due to serial communication.	Check serial interfaces (host, BT field bus). Contact the manufacturer's service department.
19	IO Error	The feeding controller signals a communication error on the serial IO interface.	Check IO interfaces Contact the manufacturer's service department.
20	External Fault	Upstream or downstream peripheral equipment reports a fault.	Eliminate the cause of the fault and make the system ready for operation.
21	Overpressure	Pressure monitoring unit fault.	Eliminate the causes of malfunction. Check the function of pressure monitoring. Contact the manufacturer's service department.
22	Belt run	Fault due to belt operation monitoring system	Check the belt run and eliminate the causes of malfunction. Check the function of belt run monitoring. Contact the manufacturer's service department.
23	External Warning	Upstream or downstream peripheral equipment reports a warning.	Troubleshoot and eliminate source of warning.

SOP OWNER  Agbadu Lawrence Date: 11/02/2022	HSE APPROVAL  Adedoyin Date: 11/02/2022	QA APPROVAL  Alawode Olujide Date: 11/02/2022	AUTHORISATION  Daramola Nadeeb Date: 11/02/2022
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UGEE CHEMICALS

ATTACHMENT 4

START UP CHECKLIST MSG

ADMIX FIELD OPERATOR

UCLIBOMSG-CD009.0

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WEEK:

TEAM:

TEAM:														
1. START UP SYSTEMS				CRIS?	Where	Systems	Working With	Target time	Mon	Tue	Wed	Thu	Fri	Comments/Improvements to reduce human effort
Switch on power into F&HC building														
Switch on MCC room panels breakers: MDP breakers, CVC panel, UPS panel, CH1, Air heater panel, HPP panel, Airtell panel, Exhaust fan panel				Yes	MCC room, Power separation building	Utilities	Utilities	10						
Switch ON the Crusher panel				Yes	MCC room		CRO	5						
Switch on level 12 panel (Panel 121, Perfume skid panel)				Yes	Level 6									
Switch on level 18 panel					Level 12			5						
Confirm functionality of barcode scanners in L24					Level 18			5						
Confirm enzymes dust controls fan and rotary valve are ON					Level 24			5						
Confirm enzymes dust controls fan and rotary valve are ON					Level 24	Filter		5						
2. ADMIX READINESS														
Open valve of required perfume day tank (manual Valve labelled Green)					On the floor or IMI		CRO	5						
Confirm perfumes lines are pressurized (blue)					On the floor		CRO	10						
Refill SEA LUV Hopper and start the LUV feeder					On the floor/IMI		CRO	5						
Confirm that there are no trips on the lighting and socket breakers. Visibly check that all the insecticidal bulbs are powered					On the floor	EMI		10						
Confirm that meter/tube display on level 18 panel is showing the weights of the weighing hoppers					On the floor									
Switch ON OP12 & Verify that all parameters are correct compared with OP12 programmable controller sheet making sure there are no failure modes active					On the floor	EMI		5						
Check the BP1 Weigh Belt Material Guide Plate is 51.5mm					On the floor			15						
Check the BP2 Weigh Belt Material Guide Plate is 54.5mm					On the floor			2						
Check that the Slide Gate for BP and BP 2 is fully opened.					On the floor			3						
Unlock all LUV hoppers					On the floor			15						
Conduct Static calibration check on the weigh belt 1, 8 & 2 and other designated feeders					On the floor	Admix		15						
Load RM according to production schedule brands					On the floor	Admix		5						
Run all LUV feeders for 1 minute each from the OP12 panel (ensure medium is running)					On the floor	Admix	CRO	5						
Run all LUV feeders refill system from the scada to ensure no refill faults at start up					IMI & on the floor		CRO	5						
Clear Enzyme accumulation on vibratory tray and Run from Control room					IMI & on the floor		CRO	5						
Empty BP weigh belt weighhoppers					IMI & on the floor		CRO	10						
Open valve of required perfume day tank (manual Valve labelled Green)					On the floor or IMI		CRO	5						
Check BP5 hopper is empty & free of lumps; break if necessary, confirm that the density station line valve is responding to push button					On the floor		BP5 controllers	5						
Admix DCS cleaning: Run the mix drum and belt from the control room					Control Room			10						
Communicate to Baggy operators DCS powder will be dosed. Place empty baggy in the baggy filling station					Baggy floor			2						
Clear blockage and caked powder in the DCS tower into the particular baggy at the filling station					Level 30			15						
Communicate to CRO blockage is completely cleared and powder evacuated					Control Room			2						

COMMENTS (not changes highlighted in yellow)

REFILL SEA LUV Hopper and start the LUV feeder Check the BP1 Weigh Belt Material Guide Plate is 51.5mm Check the BP2 Weigh Belt Material Guide Plate is 54.5mm Check that the Slide Gate for BP and BP 2 is fully opened.	SOP OWNER Agbadu Lawrence Date: 11/02/2022	HSE APPROVAL Adebisi Adeyoyin Date: 11/02/2022	QA APPROVAL Alawode Olujide Date: 11/02/2022	AUTHORISATION Daramola Nadeeb Date: 11/02/2022
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UGEE CHEMICALS

ATTACHMENT 5

SHUT DOWN CHECKLIST MSG

ADMIX FIELD OPERATOR

UCL/BDMSG/CD/009.0

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WEEK:

TEAM:

WEEK:	OK/NOK?									
TEAM:	Where	Systems	Working With	Expected time in mins	Mon	Tue	Wed	Thu	Fri	Comments/improvements to reduce human effort
1. EXTERNALIZED TASKS - to be done last 1 hour BEFORE SHUTDOWN										
Leave admix area empty of RM pallets and with correct house keeping (particular care with PC's, SEA's, Perfumes & Alex RM's)	On the floor	Admix	L24 cleaner	5						
Cover RM dump spots if no BigBag over it. Stretch wrap all dump spot with or without BigBag		Admix	Level 24 contractor	2						
2. EXTERNALIZED TASKS - to be done last 30 mins BEFORE SHUTDOWN										
Confirm all RM addition into medium has been completed (through sequential shut down) and Mixing Unit 1 & 2 are empty	HMI	Admix	CRO	2						
Completely run out all Blown Powder from Bin A & Bin B, all BP weigh hoppers and BP weighbells as released buggy	On the floor/HMI	Admix	CRO	10						
Run SEA LUV feeder on GD(Gravimetric Discharge) mode 20minutes to shutdown	On the floor/HMI	Admix	CRO	20						
Blow off ALL mix drum nozzles confirming no blockages.	HMI	Admix	CRO	NA						
Blow off Nonionic and perfume mix drum supply lines.	HMI	Admix	NA	5						
When last re-blend buggy comes out of BFS, change the recipe to "blown powder recipe" and run out the blown powder bins before stopping Admix.	HMI	Admix	CRO	NA						
Close exit valve of perfume tank being used in last formula	HMI	Admix	NA	2						
2. ADMIX SHUT DOWN										
Evacuate AC base containment	On the floor	Admix	ICSL	30						
Check that there are no contamination on all hoppers at the loading point (Cover all dumpspots with the dumpspot cover)	On the floor	Admix	ICSL	20						
Run out the remnant inside SEA LUV hopper via the Diverter scrap line	On the floor	Admix	ICSL	10						
Switch off MCC room panels breakers - MDP & breakers, CVC panel, UPS panel, CP41, Air heater panel, HPP panel, Airfilt panel, Exhaust fan panel, RVSO Panel, Panel 121, Panel 181, Perfume panel and M panel	On the floor	Admix								
Check that admix filter is empty by tapping to get hollow sound and free of fines due to risk of blockages on start up (take torch). If not tell CRO to empty it to buggy through entire system	On the floor		Level 24 contractor							
Check admix filter rotary valve chain to be at base condition (Not broken)	On the floor		Level 24 contractor							
	On the floor	Utilities								
operator responsible depends on location of cooling towers to minimize walking										

COMMENTS (last changes highlighted in yellow)

Run SEA LUV feeder on GD(Gravimetric Discharge) mode

Run out the remnant inside SEA LUV hopper via the Diverter scrap line

When last re-blend buggy comes out of BFS, change the recipe to "blown powder recipe" and run out the blown powder bins before stopping Admix.

SOP OWNER Agbadu Lawrence Date: 11/02/2022	HSE APPROVAL Adebisi Adeyoyin Date: 11/02/2022	QA APPROVAL Alawode Olujide Date: 14/02/2022	AUTHORISATION Daramola Nadeeb Date: 11/02/2022
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