



Warranty Forms

Sullair Products
Region: Americas & EMEA
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Section 1: General Information – Limited Warranty

Definitions

“distributor” refers to Sullair distributor/channel partner, authorized service provider, OEM purchaser and packager with an active account with Sullair.

“Sullair warranty system” refers to <http://warranty.sullair.com>

“Sullair training system” refers to <http://training.sullair.com>

“Major components” refers to the stationary and air treatment components listed below (if equipped)

“Vendors” refers to third party suppliers/providers of materials and/or components to Sullair

Stationary Product Line

- Motor(s)
 - ✓ Cooling Fan
 - ✓ Main
- Cooler
- VSD (variable speed drive)
- Air/Oil Separator tank

Air Treatment Product Line

Refrigerated Dryers

- Refrigerant
- Compressor
- Heat Exchanger
- Accumulator

Desiccant Dryers

- Valve housing for inlet/outlet
- Tanks/towers
- Filter Housings

Sullair, LLC (hereafter “Sullair”) warrants that its products are free from defects in materials and workmanship pursuant to the applicable limited warranty. The warranty coverage period determines how long a machine will be considered under warranty.

This document is meant to be a supplement to the Warranty Policy Handbook and supersedes all previous policies and procedures of the Sullair Warranty department, whether written, expressed, implied or accepted in the past.

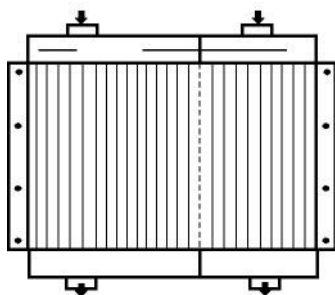
Purpose/Objective

The information in this document has been compiled to address most questions regarding the warranty claims process and what forms to submit with claim. It contains forms & sets expectations when a failure arises.

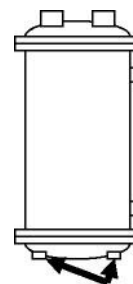
Every effort has been made to assure the information contained in this handbook is accurate. However, Sullair reserves the right to make changes, or additions without prior notification to the field.



Section 2: Major Component Forms



Cooler Failure Report 1 of 2



Weld Failure or Leak Location

(Indicate on drawing)

* Today's Date	
*Distributor Name	
*Machine serial #	
*Sullair claim and/or CRM case # (if applicable)	
Case Number # (if applicable)	
*Cooler serial (from tag) #	

* = Required Field

Cooler Failure Analysis Process

1. If troubleshooting assistance is needed contact Sullair service prior to replacing a cooler. A CRM case number will be provided to document the conversation. Follow direction from Sullair service.
2. Prior to shipping cooler to Vendor, empty all contents (oil /water/ loose debris).
3. Vendor may deny a claim if debris is present in cooler.
4. Clear and legible picture of the cooler nameplate.
5. Clear and legible picture of the failure area.
6. Submit claim within the Sullair Warranty System.
7. Provide distributor work ticket with detailed description of failure mode.
8. Attach all requested documents to the claim.



Cooler Failure Report 2 of 2

Check	Date	<u>Distributor Responsibilities</u>	Required Information
		Distributor Name	
		End User	
		Machine Serial Number	
		Cooler Part Number	
		Air or Water Cooled	
		Machine Model	
		Controls (load-unload/modulate/VFD	
		Number of Start-stops	
		Cooling Water Analysis/Sample	
		Hours on Cooler	
		Startup Date	
		Date of Failure	
		Ambient Temperature (at time of failure)	
		Connection Type (Solid piping, flex-tube)	
		Failure Mode Explanation	
		Discharge Pressure psig (normal)	
		What does end user make?	
		Compressor Air temp to cooler	
		Name of tech onsite	
		Sullair Claim Number	
		Old Cooler # / New Cooler #	
		Last Cooler/Machine PM	
		Was cooler modified? (If so, what)	
Check	Date	<u>Cooler Vendor Responsibilities</u>	Required Information
		Provide RMA for return and evaluation	
		Completed failure report	
Check	Date	<u>Sullair Responsibilities</u>	Required Information
		Verify above information	
		Contact distributor with resolution date	
		Process claim	



Motor Failure Report 1 of 3

*Today's Date	
*Distributor Name	
*Machine serial #	
*Sullair claim and/or CRM case # (if applicable)	
Case Number # (if applicable)	
*Motor serial # Example (1234567890)- 10 digits	

* = Required Field

Motor Failure Analysis Process

1. If troubleshooting assistance is needed contact Sullair service prior to replacing a motor. A CRM case number will be provided to document the conversation. Follow direction from Sullair service.
2. Provide distributor work ticket with detailed description of failure mode.
3. Prior to shipping motor to motor shop tighten motor junction box and end cap bolts.
Vendor may deny a claim if screws or caps are loose or missing.
4. What is the application?
5. What is produced by the end
6. Was motor modified? If so, what was done.
7. 10HP and below -no EASA shop evaluation required. Submit clear and legible pictures of all 4 sides, Nameplate, and a brief explanation of failure. - **EASA shop evaluation will not be paid for these motors.**
8. Larger than 10HP - EASA shop evaluation to be submitted on the warranty claim to Sullair.
 - a. Sullair Motor Failure (this form) and EASA forms filled out (Include START and FAIL dates and if the motor is on a VFD.
 - b. Clear and legible picture of the motor nameplate.
 - c. Clear and legible picture of each end of the motor (showing the complete coil).
 - d. Clear and legible picture of the failure area (bearing(s) including grease, shorted winding, water marks, etc.
 - e. Submit claim within the Sullair Warranty System (We understand that you will not be able to finalize claim prior to submitting to Sullair but we will return claim to you so that you can finalize changes to claim).
 - f. Provide distributor work ticket with detailed description of failure mode.
 - g. Attach all requested documents to claim.



Motor Failure Report 2 of 3

Check	Date	<u>Distributor Responsibilities</u>	Required Information
		Distributor Name	
		End User	
		Machine Serial Number	
		Motor Serial Number	
		Model	
		Frame Type	
		Startup Date	
		Date of Failure TEFC-ODP-	
		TEAO	
		Air-Water Cooled	
		Failure Mode Explanation	
		Last Greasing Date/Amount Used	
		Number of Starts	
		Motor Modification	
		Name of Distributor Technician on Site	
		Sullair Claim number	
Check	Date	<u>Motor Shop Responsibilities</u>	Required Information
		Completed EASA Report and FULL root cause analysis form provided to Sullair	
		Picture of motor nameplate	
		Pictures of damaged area	
		Pictures of all 4 sides of the motor	
		Voltage Wired (WYE-WYE on VSD below 200 HP common on Sullair equipment)	
		Evaluation-Repair Costs	
		<p style="text-align: center;">Electrical failure:</p> <p>Pictures of the windings up close and at a distance. Pictures of the slot and winding coil head. Also megger the motor and document the actual reading.</p>	<p>Megger between each part of phase and ground:</p> <p>T1/T4 – Ground = _____</p> <p>T2/T5 – Ground = _____</p> <p>T3/T6 – Ground= _____</p> <p>T7/T10 – Ground= _____</p> <p>T8/T11 – Ground= _____</p> <p>T9/T12 – Ground= _____</p> <p>Megger between Phase to Phase:</p> <p>T1/T4/T7/T10 -T2/T5/T8/T11= _____</p> <p>T1/T4/T7/T10 – T3/T6/T9/T12= _____</p> <p>T2/T5/T8/T11 – T3/T6/T9/T12= _____</p>



Motor Failure Report 3 of 3

Check	Date	<u>Motor Shop Responsibilities</u>	Required Information
		Mechanical Failure: Bearing housing measurements, pictures of the bearings intact on the motor shaft, pictures of the DE and NDE bearings labeled. Bearing cut open and pictures of the inner and outer races as well as the roller elements	
Check	Date	<u>Sullair Responsibilities</u>	Required Information
		Verify Above Information	
		Procure WEG Case Number	
		Obtain Resolution Date	
		Contact Distributor with path forward	
		Process Claim	
		Days from claim submission to path forward	



VSD Failure Report 1 of 2

* Today's Date	
*Distributor Name	
*Machine serial #	
*Sullair claim and/or CRM case #	
Case Number # (if applicable)	
*VSD serial # (Located on face or side of drive)	
*Starter box serial # (Yaskawa Drives)	
*GO # (Eaton drives only/Located in starter box)	SULA

* = Required Field

VSD Failure Analysis Process

1. If troubleshooting assistance is needed contact Sullair service prior to replacing a VSD. A CRM case number will be provided to document the conversation. Follow direction from Sullair service.
2. Sullair VSD Failure and Sullair Static Check forms must be filled out to file a claim.
3. Submit claim within the Sullair Warranty System.
4. Provide distributor work ticket with detailed description of failure mode.
5. Attach this document and static checklist (if applicable) to the warranty claim.
6. Sullair Warranty will provide RMA number to ship failed part(s) back to supplier. Follow return freight guidelines provided in the RMA.
8. Once drive is evaluated, Sullair will process claim accordingly.

Note:

Remove mounting flanges
 Remove power and communication cables
 Remove "C" card from VSD control box if applicable.



VSD Failure Report 2 of 2

Check	Date	<u>Distributor Responsibilities</u>	Required Information
		Distributor Name	
		End User	
		Machine Serial Number	
		VSD Serial Number	
		Machine Model	
		Sullair Claim number	
		Startup Date	
		Date of Failure	
		Failure Mode Explanation	
		End User Produce(s)	
		Tech on Site	
		Replacement Part Number	
		Part Description	
		Motor Nameplate Picture	
Check	Date	<u>Vendor Responsibilities</u>	Required Information
		Provide RMA for return and evaluation	
		Completed failure report	
Check	Date	<u>Sullair Responsibilities</u>	Required Information
		Verify Above Information	
		Procure vendor Case Number	
		Obtain Resolution Date	
		Contact Dist. with Res. Date	
		Process claim	
		Days from failure to resolution	



Tank Failure Report 1 of 2

*Today's Date	
*Distributor Name	
*Machine serial #	
*Sullair claim and/or CRM case #	
Vendor RMA # (if applicable)	
*National Board Number (from tank nameplate)	

* = Required Field

Tank Failure Analysis Process

1. If troubleshooting assistance is needed contact Sullair service prior to replacing a VSD. A CRM case number will be provided to document the conversation. Follow direction from Sullair service.
2. Clear and legible picture of tank nameplate.
3. Sullair Tank Failure Form must be filled out to file a claim.
4. Submit claim within the Sullair Warranty System.
5. Provide distributor work ticket with detailed description of failure mode.
6. Attach all requested documents to claim.
7. Sullair Warranty will provide RMA number to ship failed part(s) back to supplier.
8. Follow return freight guidelines provided in the RMA.
9. Once tank is evaluated Sullair will process claim accordingly.



Tank Failure Report 2 of 2

Check	Date	<u>Distributor Responsibilities</u>	Required Information
		Distributor Name	
		End User	
		Machine Serial Number	
		Machine Model	
		Sullair Claim number	
		Startup Date	
		Date of Failure	
		Failure Mode Explanation	
		End User Produce(s)	
		Tech on Site	
		Replacement Part Number	
		Part Description	
Check	Date	<u>Vendor Responsibilities</u>	Required Information
		Provide RMA for return and evaluation	
		Completed failure report	
Check	Date	<u>Sullair Responsibilities</u>	Required Information
		Verify Above Information	
		Procure vendor Case Number	
		Obtain Resolution Date	
		Contact Dist. with Res. Date	
		Process claim	
		Days from failure to resolution	



Section 3: Long Term Storage



LONG TERM STORAGE PROCEDURE FORM AIR TREATMENT

For all stationary equipment, long term storage is defined as **over 6 months, but not more than 24 months** from date of shipment from Sullair factory. This form plus a log for parts that need periodic inspection must be kept by the distributor/service provider. Both this form and the log must be attached with the startup registration form when the machine is registered at <https://warranty.sullair.com>

Distributor: _____ Customer Name: _____

MACHINE IDENTIFICATION

Dryer Serial Number	Model Number	Storage Date	Startup Date	Service Tech Preforming Storage
---------------------	--------------	--------------	--------------	---------------------------------

STORAGE REQUIREMENTS

1. If the dryer has a flange connection remove air inlet and air outlet flange cover or NPT cover. Use blind flange with gasket and screw plug with pipe tape for NPT connections.
2. It is preferred that the dryer package be stored in a climate controlled facility. If this is not possible, as a minimum, the dryer must be protected from the elements with an adequate cover which will help prevent condensate to collect within the dryer.
3. Long terms storage is defined as over 6 months but not exceed 24 months from date of shipment.
4. Before start-up follow the start-up procedure written on the start-up tag or in the user manuals.
5. Email this document to warranty@sullair.com to enter machine into long term storage.

Failure to comply with this procedure will reduce warranty coverage

STORAGE PREPARATION CHECKLIST – to be filled out and emailed to warranty@sullair.com

- ☐ If the dryer has a flange connection remove air inlet and air outlet flange cover or NPT cover. Use blind flange with gasket and screw plug with pipe tape for NPT connections.
- ☐ On water cooled packages, drain water from all coolers and piping and fill with 50/50 Glycol/Water solution. Plug inlet and outlet connections. (Not required for air cooled machines).
- ☐ On air side of coolers, moisture separators and traps, blowout with dry air to remove moisture. Plug connections.
- ☐ Blow control air lines with dry air to remove moisture.
- ☐ Tag all plugs which must be removed before start-up.
- ☐ Place desiccant in starter/control box. If the box has gasketed door - check integrity for sealing; correct if necessary. If the box does not have a gasketed door, seal the box seams with moisture resistant tape to prevent moisture ingress
- ☐ Tape copy of storage instructions in plastic-envelope to outside of package or cover.

START-UP CHECKLIST – to be filled out and attached when machine is registered

- ☐ If water cooled, remove glycol from coolers and associated piping.
- ☐ Remove all plugs where tagged.
- ☐ Remove desiccant from starter/control box.
- ☐ Follow the user manual for normal start-up procedure.
- ☐ Replace belts if equipped.
- ☐ Inspect and replace as needed coupling element if equipped

WARRANTY INFORMATION

LONG TERM STORAGE PROCEDURE FORM STATIONARY COMPRESSOR (NON-ENCAPSULATED MACHINE)

For all stationary equipment, long term storage is defined as **over 6 months, but not more than 24 months** from date of shipment from Sullair factory. This form plus a log for parts that need periodic inspection must be kept by the distributor/service provider. Both this form and the log must be attached with the startup registration form when the machine is registered at <https://warranty.sullair.com>

Distributor: _____ Customer Name: _____

MACHINE IDENTIFICATION

Compressor Serial Number	Model Number	Storage Date	Startup Date	Service Tech Performing Storage
--------------------------	--------------	--------------	--------------	---------------------------------

STORAGE REQUIREMENTS

1. It is preferred that the package be stored in a climate controlled facility. If this is not possible, as a minimum it must be protected from the elements with an adequate cover which will not allow condensate to collect within it.
2. Every six months, rotate the drive shaft 1½ turns in opposite direction to the normal rotation. **Log must be maintained of six month rotation.**
3. Maintain motor in accordance with motor manufacturer recommendations during storage period.

STORAGE PREPARATION CHECKLIST – to be filled out and emailed to warranty@sullair.com

- ☐ Remove air intake filter and store in a clean secure area.
- ☐ Fill air end with the original lubricant as indicated by decal on the sump tank. Plug or blind flange the inlet connection.
- ☐ On water cooled packages, drain water from all coolers and piping and fill with 50/50 Glycol/Water solution. Plug inlet and outlet connections. (Not required for air cooled machines).
- ☐ On air side of coolers, moisture separators and traps, blowout with dry air to remove moisture. Plug connections.
- ☐ Blow control air lines with dry air to remove moisture. Seal or plug openings on blow-down valve and relief valves.
- ☐ Tag all plugs which must be removed before start-up.
- ☐ Place desiccant in starter/control box. If the box has gasketed door - check integrity for sealing; correct if necessary. If the box does not have a gasketed door, seal the box seams with moisture resistant tape to prevent moisture ingress.
- ☐ Record and place reading on a tag secured to the motor eye bolt.
- ☐ Megger motor. Record and place reading on a tag secured to the motor eye bolt.
- ☐ Grease motor bearings per motor nameplate.
- ☐ Complete any additional storage requirements per the motor manufacturers' recommendations.
- ☐ Tape copy of storage instructions in plastic-envelope to outside of package or cover.

START-UP CHECKLIST – to be filled out and attached when machine is registered.

- ☐ Follow start-up instructions in the motor manual.
- ☐ Megger the motor. Compare with tag on motor eye-bolt taken at time of storage. Refer to motor manufacturers recommendations.
- ☐ If water cooled, remove glycol from coolers and associated piping.
- ☐ Remove all plugs where tagged.
- ☐ Manually rotate the motor shaft in the direction of rotation to remove fluid from the Air End.
- ☐ Check minimum pressure valve for free movement.
- ☐ Fill the sump with a fresh charge of compressor fluid.
- ☐ Install air filter, blowdown valve, relief valve, and any other components that were removed in preparation of, or during, storage.
- ☐ Remove desiccant from starter/control box.
- ☐ Follow the compressor manual for normal start-up procedure.
- ☐ Replace belts if equipped.



LONG TERM STORAGE PROCEDURE FORM STATIONARY COMPRESSOR (ENCAPSULATED MACHINE)

For all stationary equipment, long term storage is defined as **over 6 months, but not more than 24 months** from date of shipment from Sullair factory. This form plus a log for parts that need periodic inspection must be kept by the distributor/service provider. Both this form and the log must be attached with the startup registration form when the machine is registered at <https://warranty.sullair.com>

Distributor: _____ Customer Name: _____

MACHINE IDENTIFICATION

Compressor Serial Number	Model Number	Storage Date	Startup Date	Service Tech Preforming Storage
--------------------------	--------------	--------------	--------------	---------------------------------

STORAGE REQUIREMENTS

1. It is preferred that the package be stored in a climate controlled facility. If this is not possible, as a minimum it must be protected from the elements with an adequate cover which will not allow condensate to collect within it.
2. Every six months, rotate the drive shaft 1½ turns in opposite direction to the normal rotation. **Log must be maintained of six month rotations.**
3. Maintain motor in accordance with motor manufacturer recommendations during storage period.

STORAGE PREPARATION CHECKLIST- to be filled out and emailed to warranty@sullair.com

- ☐ Remove air intake filter and store in a clean secure area.
- ☐ Pour one-half (½) gallon of original lubricant in the intake elbow to protect air end.
- ☐ Close up the inlet opening using duct tape.
- ☐ On air side of coolers, moisture separators and traps, blowout with dry air to remove moisture. Plug connections.
- ☐ Blow control air lines with dry air to remove moisture. Seal or plug openings on blow-down valve and relief valves.
- ☐ Tag all plugs which must be removed before start-up.
- ☐ Place desiccant in starter/control box. If the box has gasketed door - check integrity for sealing; correct if necessary. If the box does not have a gasketed door, seal the box seams with moisture resistant tape to prevent moisture ingress.
- ☐ Megger motor. Record and place reading on a tag secured to the motor eye bolt.
- ☐ Grease motor bearings per motor nameplate.
- ☐ Complete any additional storage requirements per the motor manufacturer's recommendations.
- ☐ Note total desiccant bag count on storage instructions. Tape copy of storage instructions in plastic-envelope to outside of package or cover.

START-UP CHECKLIST- to be filled out and attached when machine is registered

- ☐ Follow start-up instructions in the motor manual.
- ☐ Megger the motor. Compare with tag on motor eye-bolt taken at time of storage.
Refer to motor manufacturers recommendations.
- ☐ Remove all plugs where tagged.
- ☐ Manually rotate the motor shaft in the direction of rotation to remove fluid from the Air End.
- ☐ Check minimum pressure valve for free movement.
- ☐ Fill the sump with a fresh charge of compressor fluid.
- ☐ Install air filter, blowdown valve, relief valve, and any other components that were removed in preparation of, or during storage.
- ☐ Remove desiccant from starter/control box.
- ☐ Follow the compressor manual for normal start-up procedure.



LONG TERM STORAGE PROCEDURE FORM STATIONARY COMPRESSOR (OIL FREE MACHINE)

For all stationary compressors, long term storage is defined as **over 6 months, but not more than 24 months** from date of shipment from Sullair factory. This form plus a log for parts that need periodic inspection must be kept by the distributor/service provider. Both this form and the log must be attached with the startup registration form when the machine is registered at <https://warranty.sullair.com>

Distributor: _____ Customer Name: _____

MACHINE IDENTIFICATION

Compressor Serial Number	Model Number	Storage Date	Startup Date	Service Tech Preforming Storage
--------------------------	--------------	--------------	--------------	---------------------------------

STORAGE REQUIREMENTS

1. It is preferred that the package be stored in a climate controlled facility. If this is not possible, as a minimum it should be protected from the elements with an adequate cover which will not allow condensate to collect within it.
2. Every six months, rotate the drive shaft 1½ turns in opposite direction to the normal rotation. **Log must be maintained of six month rotation.**
3. Maintain motor in accordance with motor manufacturer recommendations during storage period.

STORAGE PREPARATION CHECKLIST- to be filled out and emailed to warranty@sullair.com

- ☐ Remove air intake filter and store in a clean secure area.
- ☐ Blow out with dry air to remove all moisture, first stage block, muffler, intercooler, water leg and drains, interstage piping. Hang desiccant bag(s) in first stage inlet (making sure bags cannot touch or fall onto rotors) and outlet end of interstage hard piping. Plug or blind flange all openings and tag their locations.
- ☐ Blow out with dry air to remove all moisture, second stage block, muffler, check valve, aftercooler, moisture separator and trap. Place desiccant bag(s) in second stage inlet (making sure bags cannot be drawn into rotors when Air End is turned slowly) and inside final discharge flange (after moisture separator/trap). Plug or blind flange all openings and tag their locations.
- ☐ Remove sump breather and plug breather port.
- ☐ Blow control air lines with dry air to remove moisture. Seal or plug openings on blow-down valve and relief valves.
- ☐ On water cooled packages, drain water from all coolers and piping and fill with 50/50 Glycol/Water solution. Plug inlet and outlet connections. (Not required for air cooled machines).
- ☐ Tag all plugs which must be removed before start-up.
- ☐ Place desiccant in starter/control box. If the box has gasketed door - check integrity for sealing; correct if necessary. If the box does not have a gasketed door, seal the box seams with moisture resistant tape to prevent moisture ingress.
- ☐ Megger motor. Record and place reading on a tag secured to the motor eye bolt.
- ☐ Grease motor bearings per motor nameplate.
- ☐ Complete any additional storage requirements per the motor manufacturer's recommendations.
- ☐ Note total desiccant bag count on storage instructions. Tape copy of storage instructions in plastic-envelope to outside of package or cover.

START-UP CHECKLIST- to be filled out and attached when machine is registered

- ☐ Follow start-up instructions in the motor manual.
- ☐ Megger the motor. Compare with tag on motor eye-bolt taken at time of storage. Refer to motor manufacturers recommendations.
- ☐ If water cooled, remove glycol from coolers and associated piping.
- ☐ Remove all plugs where tagged.
- ☐ Manually rotate in direction of rotation; ensure machine rotates freely.
- ☐ Check minimum pressure valve for free movement.
- ☐ Fill the sump with a fresh charge of compressor fluid.
- ☐ Install air filter, blowdown valve, relief valve, and any other components that were removed in preparation of, or during, storage.
- ☐ Remove desiccant bags; ensure count is same as noted at installation.
- ☐ Follow the compressor manual for normal start-up procedure.
- ☐ Replace Belts if equipped.



LONG TERM STORAGE PROCEDURE FORM PORTABLE COMPRESSOR

For all portable compressors, long term storage is defined as **over 12 months, but not more than 24 months** from date of shipment from Sullair factory. This form plus a log for parts that need periodic inspection must be kept by the distributor/service provider. Both this form and the log must be attached with the startup registration form when the machine is registered at <https://warranty.sullair.com>.

Distributor: _____ Customer Name: _____

MACHINE IDENTIFICATION

Compressor Serial Number	Model Number	Storage Date	Startup Date	Service Tech Preforming Storage
--------------------------	--------------	--------------	--------------	---------------------------------

STORAGE REQUIREMENTS

1. It is preferred that the package be stored in a climate controlled facility. If this is not possible, as a minimum it should be protected from the elements with an adequate cover which will not allow condensate to collect within it.
2. Every six months, rotate the drive shaft 1½ turns in opposite direction to the normal rotation. **Log must be maintained of six month rotation.**
3. Maintain engine in accordance with engine manufacturer recommendations during storage period.

STORAGE PREPARATION CHECKLIST- to be filled out and emailed to warranty@sullair.com

- ☐ Remove air intake filter and store in a clean secure area.
- ☐ Fill air end with the original lubricant as indicated by decal on the sump tank. Plug or blind flange the inlet connection.
- ☐ Blow control air lines with dry air to remove moisture. Seal or plug openings on blow-down valve and relief valves.
- ☐ On air side of coolers, moisture separators and traps, blowout with dry air to remove moisture. Plug connections.
- ☐ Tag all plugs which must be removed before start-up.
- ☐ Place desiccant in starter/control box. If the box has gasketed door - check integrity for sealing; correct if necessary. If the box does not have a gasketed door, seal the box seams with moisture resistant tape to prevent moisture ingress.
- ☐ Grease all bearings.
- ☐ Complete any additional storage requirements per the engine manufacturer's recommendations.
- ☐ Tape copy of storage instructions in plastic-envelope to outside of package or cover.

START-UP CHECKLIST

- ☐ Follow start-up instructions in the engine manual.
- ☐ Remove all plugs where tagged.
- ☐ Manually rotate the compressor shaft in the direction of rotation to remove fluid from the Air End.
- ☐ Fill the sump with a fresh charge of compressor fluid.
- ☐ Check minimum pressure valve for free movement.
- ☐ Fill the sump with a fresh charge of compressor fluid.
- ☐ Install air filter, blowdown valve, relief valve, and any other components that were removed in preparation of, or during, storage.
- ☐ Remove desiccant from starter/control box.
- ☐ Follow the compressor manual for normal start-up procedure.

WARRANTY INFORMATION

LONG TERM STORAGE PROCEDURE FORM PORTABLE COMPRESSOR (OIL FREE MACHINE)

For all portable compressors, long term storage is defined as **over 12 months, but not more than 24 months** from date of shipment from Sullair factory. This form plus a log for parts that need periodic inspection must be kept by the distributor/service provider. Both this form and the log must be attached with the startup registration form when the machine is registered at <https://warranty.sullair.com>

Distributor: _____ Customer Name: _____

MACHINE IDENTIFICATION

Compressor Serial Number	Model Number	Storage Date	Startup Date	Service Tech Preforming Storage
--------------------------	--------------	--------------	--------------	---------------------------------

STORAGE REQUIREMENTS

1. It is preferred that the package be stored in a climate controlled facility. If this is not possible, as a minimum it should be protected from the elements with an adequate cover which will not allow condensate to collect within it.
2. Every six months, rotate the drive shaft 1½ turns in opposite direction to the normal rotation ensuring desiccant bags are not drawn into rotors. **Log must be maintained of six month rotation.**
3. Maintain engine in accordance with engine manufacturer recommendations during storage period.

STORAGE PREPARATION CHECKLIST- to be filled out and emailed to warranty@sullair.com

- ☐ Remove air intake filter and store in a clean secure area.
- ☐ Blow out with dry air to remove all moisture, first stage block, muffler, intercooler, water leg and drains, interstage piping. Hang desiccant bag(s) in first stage inlet (making sure bags cannot touch or fall onto rotors) and outlet end of interstage hard piping. Plug or blind flange all openings and tag their locations.
- ☐ Blow out with dry air to remove all moisture, second stage block, muffler, check valve, aftercooler, moisture separator and trap. Place desiccant bag(s) in second stage inlet (making sure bags cannot be drawn into rotors when Air End is turned slowly) and inside final discharge flange (after moisture separator/trap). Plug or blind flange all openings and tag their locations.
- ☐ Blow out with dry air to remove all moisture from condensate lines.
- ☐ Remove sump breather and plug breather port.
- ☐ Blow control air lines with dry air to remove moisture. Seal or plug openings on blow-down valve and relief valves.
- ☐ Tag all plugs which must be removed before start-up.
- ☐ Place desiccant in starter/control box. If the box has gasketed door - check integrity for sealing; correct if necessary. If the box does not have a gasketed door, seal the box seams with moisture resistant tape to prevent moisture
- ☐ Grease all bearings.
- ☐ Complete any additional storage requirements per the engine manufacturer's recommendations.
- ☐ Tape copy of storage instructions in plastic-envelope to outside of package or cover.

START-UP CHECKLIST- to be filled out and attached when machine is registered.

- ☐ Follow start-up instructions in the engine manual.
- ☐ Remove all plugs where tagged.
- ☐ Fill the sump with a fresh charge of compressor fluid.
- ☐ Install air filter, blowdown valve, relief valve, and any other components that were removed in preparation of, or during, storage.
- ☐ Remove desiccant bags; ensure count is same as noted at installation.
- ☐ Manually rotate in direction of rotation; ensure machine rotates freely.
- ☐ Replace engine to Air End adapter guard.
- ☐ Follow the compressor manual for normal start-up procedure.



LONG TERM STORAGE PROCEDURE FORM
“STAND ALONE AIREND” (OIL FLOODED)

For all portable compressors, long term storage is defined as **over 6 months, but not more than 24 months** from date of shipment from Sullair factory. This form plus a log for parts that need periodic inspection must be kept by the distributor/service provider. Both this form and the log must be attached with the startup registration form when the machine is registered at <https://warranty.sullair.com>

Distributor: _____ Customer Name: _____

AIREND IDENTIFICATION

Compressor Serial Number	Model Number	Storage Date	Startup Date	Service Tech Performing Storage
--------------------------	--------------	--------------	--------------	---------------------------------

STORAGE REQUIREMENTS

1. It is preferred that the package be stored in a climate controlled facility. If this is not possible, as a minimum it should be protected from the elements with an adequate cover which will not allow condensate to collect within it.
2. Every six months, rotate the drive shaft 1½ turns in opposite direction to the normal rotation. **Log must be maintained of six month rotation.**

STORAGE PREPARATION CHECKLIST- to be filled out and emailed to warranty@sullair.com

- ☐ Cap off all connections and plug all openings with the exception of the inlet port.
- ☐ Tag all plugs which must be removed before start-up.

START-UP CHECKLIST- to be filled out and attached when machine is registered

- ☐ Remove all plugs where tagged.
- ☐ Drain all fluid from airend by rotating the shaft by hand until no fluid is discharged from the unit.
- ☐ Follow the compressor manual for normal start-up procedure.



LONG TERM STORAGE PROCEDURE FORM STATIONARY COMPRESSOR (CENTRIFUGAL) 1 OF 3

For all stationary compressors, long term storage is defined as **over 6 months, but not more than 24 months** from date of shipment from Sullair factory. This form plus a log for parts that need periodic inspection must be kept by the distributor/service provider. Both this form and the log must be attached with the startup registration form when the machine is registered at <https://warranty.sullair.com>

Distributor: _____ Customer Name: _____

MACHINE IDENTIFICATION

Compressor Serial Number	Model Number	Storage Date	Startup Date	Service Tech Performing Storage

SUBJECT & SCOPE

The internal components of this class of equipment are extremely expensive and vulnerable to corrosion. Specific steps can be taken to sufficiently protect these sensitive parts. The procedures described herein are to be performed if the compressor is subject to any of the following conditions:

1. Storage for more than 90 days after shipment from Sullair.
2. Storage for more than 60 day after a shutdown (i.e. the unit had been installed and operating).
3. Storage in an area where humidity exceeds 85%, and /or a salt water atmosphere exists, for a period more than 30 day after shipment or shutdown.
4. The storage site must be clean, dry and protect ed from weather extremes.

STORAGE REQUIREMENTS

STORAGE PREPARATION CHECKLIST – to be filled out and emailed to warranty@sullair.com

- ☐ Prior to placing the compressor in long term storage, the gearbox must be prepped in accordance with normal machine startup procedures, including the removal of all absorbent paper and shipping materials

Lube system

- ☐ Maintain power to the lube oil heater. Reduce the thermostat setting 80° F. (Normal operating conditions require a 100° F setting).
- ☐ Operate the low-pressure oil pump for 15-20 minutes every 3-4 weeks. This will coat the gearbox internals as well as the lube system components.
- ☐ While the pump is running, rotate the compressor/motor shaft with a strap wrench. This assures full coverage of the bull gear and lubricates the motor shaft and motor bearings.

Heat Exchangers

- ☐ If temperatures below freezing are anticipated during the storage period, drain all water from the coolers. Drain and vent plugs are provided. Add approximately one quart of ethylene glycol, or standard automotive antifreeze to the coolers by sealing the drain connections and pouring the antifreeze into the vent connections. This will prevent residual water from freezing and damaging the tubes. Take extra care to add antifreeze to the oil cooler and after cooler.
- ☐ If a closed-loop cooling water system is used, it is not necessary to drain the coolers as the coolant already contains some form of antifreeze. However, it is recommended to circulate the coolant for 15-20 minutes every 3-4 weeks to reduce the growth of biological elements (algae) in the cooler tubes.

Drive Coupling

- ☐ Remove the coupling guard and spray the exterior surface of the coupling and exposed surfaces of the compressor and motor shafts with a rust inhibitor (Molykote Metal Protector, WD-40, etc.).
- ☐ When rotating the shafts as described earlier, inspect the coupling and shafts for a need to reapply the protector.

Control Panel

- ☐ Keep the panel energized during the entire storage period. Heat generated by the power supply will prevent condensation. If keeping the entire panel energized is impractical, install and energize a 25-watt space heater inside the panel. An incandescent light bulb is sufficient.
- ☐ Check that all entry points on the panel are sealed or screened to prevent entry of insects.



LONG TERM STORAGE PROCEDURE FORM STATIONARY COMPRESSOR (CENTRIFUGAL) 2 OF 3

CONDENSATE

- q Open the intercooler and aftercooler condensate drain bypass to release any residual condensate. If no bypass was provided, remove the condensate control device (solenoid valve, steam trap, etc.) to allow open drainage. Cover these openings with screen to prevent entry of insects or small animals.
- q Take adequate precautions that condensate in the discharge air piping does not drain back into the compressor. Open any drop leg drains, or remove the compressor check valve. Install a blind flange in its place on the compressor side of the piping.

INLET AIR FILTER

Seal off the inlet to the compressor air filter to prevent birds or insects from nesting inside.

Main Drive Motor

- q Storage requirements of the major motor manufacturers are basically the same. Keep the motor warm, dry and clean.
- q Keep space heaters energized always. Maintaining the winding temperature a few degrees above ambient will protect against condensation. If space heaters were not provided, place a couple 100-watt (light bulbs) inside the motor enclosure, or directly under the motor.
- q Screen off openings to prevent entry of insects or small animals.
- q Rotating the shaft every 3-4 weeks will sufficiently lubricate the shaft and bearings to protect from corrosion.

FINAL STEP

The entire compressor may be covered with a drop cloth or canvas tarpaulin. This will offer protection from dirt and dust while allowing the unit to breathe. **DO NOT USE POLYETHYLENE (plastic) COVERS.**

STORAGE LOG

A log containing sufficient record to establish proper compliance with these procedures is recommended. It is suggested that the following items be checked monthly:

1. Lube oil heater is operational @ 80° F.
2. Low pressure oil pump is operated for 15-20 minutes.
3. Rotate compressor and motor while pump is running.
4. Oil level in motor bearing reservoirs (sleeve bearing motors only) is correct.
5. Motor space heaters are operating.
6. Control panel space heater is operating.
7. Technician Name, Date and time of each visit.

COMMISSIONING THE COMPRESSOR

Centrifugal compressors are a high technology product. Although designed for ease of maintenance, many of the clean-up, re-assembly, 's installation, check out and start-up tasks described may be beyond the experience of operating personnel. It is recommended that the procedures required to put the compressor into service after the storage period be performed under the supervision of a Sullair Service Representative. Minor adjustments, incorrectly performed, can cause serious damage. Following a schedule of inspection and periodic maintenance will give years of trouble-free service.

Gasket & Seals

Extended storage may cause the deterioration of gaskets, o-rings, flexible seals and sealing compounds. These items shall be installed new, if and as required, as part of the commissioning process. These items may be purchased as required. Refer to the Parts List in the Operator Manual.

Procedure

Re-commissioning a compressor entails much of the same attention as an annual "Turnaround Inspection".

Storage is the responsibility of the compressor owner, or user. Validation of any remaining warranties is contingent on the satisfactory condition of the compressor and drive motor after the storage period.

WARRANTY INFORMATION

LONG TERM STORAGE PROCEDURE FORM STATIONARY COMPRESSOR (CENTRIFUGAL) 3 OF 3

Assembly or Parts

Discussion

Gearcase**	<ul style="list-style-type: none"> • Inspect thrust and journal bearings for signs of unusual wear or corrosion. • Check thrust bearing axial clearance. • Inspect bullgear and pinions for unusual signs of wear, cracked or broken teeth, or detrimental corrosion. • Inspect pinion thrust collars for wear or corrosion. • Check axial clearances between pinion thrust collars and bullgear. • Inspect air and oil seals for signs of wear • Clean impellers, inlets and diffusers with detergent and water. • Inspect impellers, inlets and diffusers for wear, rubbing or cracking. • Check clearance between impellers and inlets.
Intercoolers** & Aftercooler**	<ul style="list-style-type: none"> • Inspect cooler tubes. Clean as necessary. • Clean intercooler fins with compressed air or steam. • Clean intercooler cavities of excessive scaling. • Inspect baffles and seals.
Lube Oil System**	<ul style="list-style-type: none"> • Inspect oil cooler tubes. Clean as necessary. • Lube oil pump motor. • Test lube oil for contamination or deterioration. • Replace oil system and mist eliminator filter elements.
Control Panel	<ul style="list-style-type: none"> • Test for complete and proper operation.
Control Valves**	<ul style="list-style-type: none"> • Inspect the inlet guide vanes, bypass valve and check valve for signs of wear or detrimental corrosion. • Lubricate the guide vane actuator.
Compressor Drive Motor	<ul style="list-style-type: none"> • Inspect motor in accordance with the manufacturer's recommendations. (It may be necessary for the manufacturer's representative to inspect bearing and meggar the motor windings) • Change motor bearing lubricant. • Inspect the main drive coupling for wear or detrimental corrosion. • Change drive coupling lubricant. • Check alignment between compressor and motor shafts.
Miscellaneous**	<ul style="list-style-type: none"> • Inspect inlet air filter elements. Replace if necessary. • Replace buffer air system and bypass valve filter elements.

** Inspection Parts (gasket, o-ring, etc.) required. See Operator's Manual.

START-UP CHECKLIST- to be filled out and attached when machine is registered



Section 4: Return Freight



Return Freight for Warranty Claims Standard Work

When Sullair requests materials back for warranty purposes, please ship using the following guidelines. Mark outside of shipment with RMA number provided by Sullair. Any deviation from this will result in freight not being covered. Unless stated otherwise in the warranty claim, all shipments should go back to:

*Sullair, LLC
1 Sullair Way
Michigan City, IN 46360*

Instructions for parcel shipments:

Up to 150 pounds: ship via Ground Collect – Fed Ex Account Number 046300220

UPS Account Number 431429

If freight is palletized, ship via Recon Logistics using the Truck Shipment Instructions below

Instructions for Truck Shipments (151 pounds and above, and all palletized freight) must be routed through Recon Logistics:

- 1) Email the following information to: Sullair@reconlogistics.com.
- 2) Ship from Name and Address.
- 3) Ship to Name and Address.
- 4) Date and time shipment is ready.
- 5) Piece count and number of skids (for multiple skids, pieces per skid).
- 6) Sullair Claim Number.
- 7) Total Weight.
- 8) Dimensions for each skid (Length x Width x Height).
- 9) Sullair Part Number(s) and Quantity.
- 10) Description of Product.
- 11) Any Special Pick-up Instructions like specific pick-up numbers, no fork lift, etc.
- 12) Hours of operation (Shipping Location).

Recon Logistics Phone Number: 440-708-2306



Section 5: Startup Form

WARRANTY INFORMATION

Portable Compressor Startup Form

The checklist information on this side will be needed to register the compressor.
The selling entity is responsible for the compressor registration. Registration must be entered online at <http://warranty.sullair.com>

Before starting a compressor, read the user manual.

GENERAL INFORMATION

Distributor: _____ Customer Name: _____
 _____ Customer Address: _____
 Contact Name: _____ City: _____
 _____ State or Province/Postal Code: _____
 Phone: _____ Country: _____

MACHINE IDENTIFICATION

Compressor Serial Number _____ Model Number _____ Start-Up Date _____ Service Technician Performing Start-Up _____
 Engine Manufacturer _____ Engine Serial Number _____ ☐ Register engine with engine manufacturer

PRESTART CHECKLIST

- ☐ Complete a thorough check of the compressor for shipping damage.
If there is any shipping damage, contact your freight carrier for damage claim.
- ☐ Check for obvious leaks and repair connections if necessary.
- ☐ Check engine coolant and fill if necessary.
- ☐ Check engine crankcase and fill if necessary.
- ☐ Check compressor lubricant level and fill if necessary.
- ☐ Check batteries and fill if necessary.
- ☐ Verify that electrical connections are tight.
- ☐ Verify that all bolts are properly tightened.
- ☐ Verify condition of fans and blades.
- ☐ Check tubing for leaks.
- ☐ Check canopy for fit and form.
- ☐ Check wheel lug nuts for proper torque.

Once the compressor is started, complete the following performance checklist

Ambient Temperature	_____ ° F	_____ ° C	Compressor Application (please check one) <input type="checkbox"/> Hand tools <input type="checkbox"/> Sand Blasting <input type="checkbox"/> Back-up <input type="checkbox"/> Pipe Line <input type="checkbox"/> Drill Rig <input type="checkbox"/> Rental <input type="checkbox"/> Cleaning <input type="checkbox"/> Mining <input type="checkbox"/> Painting <input type="checkbox"/> Other: _____
Engine Temperature	_____ ° F	_____ ° C	
Discharge Temperature	_____ ° F	_____ ° C	
Engine Full-load	_____ RPM		
Engine Idle	_____ RPM		
Maximum Air Pressure	_____ psig	_____ bar	



Stationary Compressor Startup Form

The checklist information on this side and the reverse side will be needed to register the compressor.
The selling entity is responsible for the compressor registration. Registration must be entered online at
<http://warranty.sullair.com>

Before starting a compressor, read the user manual

GENERAL INFORMATION

Distributor: _____	Customer Name: _____
_____	Customer Address: _____
Contact Name: _____	City: _____
_____	State or Province/Postal Code: _____
Phone: _____	Country: _____

MACHINE IDENTIFICATION

Compressor Serial Number _____	Model Number _____	Start-Up Date _____	Service Technician Performing Start-Up _____
--------------------------------	--------------------	---------------------	--

PRESTART CHECKLIST

- ☐ Complete a thorough check of the compressor for shipping damage.
If there is any shipping damage, contact your freight carrier for damage claim
- ☐ Check for obvious leaks and repair connections if necessary.
- ☐ Verify that the motor leads on starter are secure.
- ☐ Verify that the motor overload connections are secure.
- ☐ Verify that the fan overload connections are secure.
- ☐ Verify that the amps are correct for overload on the main motor name plate.
- ☐ Verify that the amps are correct for overload on the fan motor name plate.
- ☐ Verify that the terminal strip connections are tight.
- ☐ Verify that the primary and secondary voltages are correct (i.e. transformer taps).
- ☐ Verify that the machine is properly grounded.
- ☐ After all electrical connections are made, bump to check direction of rotation.
- ☐ If necessary, verify grouting per Specification #02250137-434.
- ☐ Verify that the coupling alignment is correct.
- ☐ Verify that the torque of tank lid bolts is proper.
- ☐ Verify that the bolts on the coupling, main motor, airend, tank and frame are properly tightened.
- ☐ Verify that the lubricant level is correct and fill if necessary.
- ☐ Verify that the controller programming, if applicable, is correct.

AirLinx®:

- ☐ AirLinx equipped?
- ☐ S/N(ESN on modem) _____
- ☐ Confirm blink pattern showing connection of modem is correct.
- ☐ Confirm form was sent to Sullair to activate modem.
- ☐ Confirm customer has a form in to access AirLinx

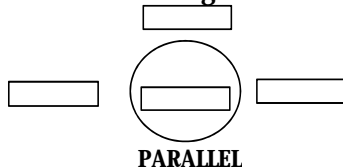
Once the compressor is started, complete the performance checklist on next page

WARRANTY INFORMATION

Stationary Compressor Startup Form Page 2 of 2

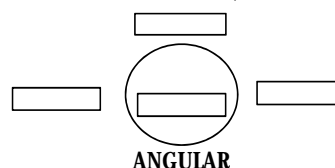
PERFORMANCE CHECKLIST

For Machines without C-Flange



PARALLEL

COUPLING ALIGNMENT (Must be within 0.005 T.I.R)



ANGULAR

COMPLETE FOR ALL COMPRESSORS

Lubricant Used _____

Incoming Voltage: ☐ Utility ☐ Generator

L1-L2 _____ L2-L3 _____ L1-L3 _____

Nameplate Amperage _____

Full Load Amperage (taken at package design psig/bar)

L1 _____ L2 _____ L3 _____ at _____ psig/bar

Unloaded Amperage

L1 _____ L2 _____ L3 _____ at _____ psig/bar

Service Factor _____

Main Motor Overload Size _____

☐ Check Regulators / Spiral Valve Operation

☐ Verify Inlet Modulation at 5 psig/.345 bar over rated

☐ Verify Spiral Valve Modulation at 2 psig/.138 bar overrated

☐ Verify Pressure Switch Settings

Full Load Compressor Discharge Temp _____ °F _____ °C

Ambient Temperature _____ °F _____ °C

Compressor Environment

☐ Excellent ☐ Good ☐ Fair ☐ Poor

COMPLETE FOR AIR COOLED COMPRESSORS

Compressor Air Pressure Loaded Line _____ psig/bar

Unloaded Line _____ psig/bar

☐ Verify Exhaust is Vented and Sized Properly

COMPLETE FOR WATER COOLED COMPRESSORS

Water Line Pressure: In _____ psig/bar

Out _____ psig/bar

Water Temperature: In _____ °F _____ °C

Out _____ °F _____ °C

Type of Water Used

☐ City ☐ Well ☐ Cooling Tower ☐ Water Treatment

COMPLETE FOR REMOTE COOLED COOLERS

Oil Pressure: In _____ psig/bar

Out _____ psig/bar

Oil Temperature: In _____ °F _____ °C

Out _____ °F _____ °C

COMPLETE FOR VSD APPLICATION

Breaker: Size _____ Amp _____

Fuse: Type _____ Size _____ Amp _____

Power Wire Size: _____

Ground Wire Size: _____

Earth Ground: ☐ Yes ☐ No

Modification to Sullair product design will void warranty; customer supplied components (if any) like motor, starter, VFD cooler, tank etc. must be approved by Sullair Warranty Dept. in writing and listed here: (If more space is needed please attach to report)

Component	Manufacturer	Model / Serial Number

Application: ☐ General Manufacturing/Fabrication ☐ Pulp/Paper/Woodworking ☐ Mining ☐ Petroleum
☐ Agriculture/Alt Fuels ☐ Utilities ☐ Machinery ☐ Rubber ☐ Transportation ☐ Electronics
☐ Metals ☐ Chemicals ☐ Textile ☐ Food ☐ Industrial Gas ☐ Other

Installation Comments:



Centrifugal Compressor Startup Form 1 or 2

The checklist information on this side and the reverse side will be needed to register the compressor.
The selling entity is responsible for the compressor registration. Registration must be entered online at
<http://warranty.sullair.com>

Before starting a compressor, read the user manual

GENERAL INFORMATION

Distributor: _____ Customer Name: _____
 _____ Customer Address: _____
 Contact Name: _____ City: _____
 _____ State or Province/Postal Code: _____
 Phone: _____ Country: _____

MACHINE IDENTIFICATION

Compressor Serial Number Model Number Start-Up Date Service Technician Performing Start-Up

Main Drive Motor and Starter Information							
Motor Manufacturer				Starter Manufacturer			
Motor HP				Starter Type			
Motor Full Load Amps (FLA)				CT Ratio - actual / entered			
Motor Service Factor (SF)				Motor Voltage			
Final Motor Alignment Data (taken at MOTOR hub and noted with correct units)							
Shaft Separation		Motor Float		Motor feet doweled			
FACE readings	12:00	3:00		6:00		9:00	
O.D. readings	12:00	3:00		6:00		9:00	
Oil, Coolant and Coupling Data (noted with correct choices or units)							
Oil Type			Main Drive Coupling Type			Coupling bolts lubed	
Coolant type			Coupling bolt torque			Coupling modified for sleeve bearings	
Control System Information (noted with correct choices)				Control Valve and Actuator Information (noted with correct choices)			
Controller Type				Inlet Valve			
Control Mode				Inlet Valve Actuator			
Loop Structure				Discharge Valve			
Software #				Discharge Valve Actuator			

WARRANTY INFORMATION

Centrifugal Compressor Startup Form 2 of 2

Control System Setpoints and Tuning (noted with correct units)					
Max. Motor Load		Inlet Max Load (Kp / Ki)			
System Pressure		Inlet System Pressure (Kp / Ki)			
Surge Offset		Inlet Surge Control (Kp / Ki)			
System Pressure Offset		Blowoff Surge Control (Kp / Ki)			
Maximum Discharge Pressure		Blowoff System Pressure Offset (Kp / Ki)			
SurgeWatch Motor Gain/Time (seconds)		Blowoff Discharge Pressure Limit (Kp / Ki)			
Surge Data (noted with correct units)					
Surge Points	Natural Surge	High Surge	Mid Surge	Low Surge	
Current					
Pressure					
Final Compressor Operating Data (noted with correct units)					
System Pressure		Vibration (1/2/3/4)			
Discharge Pressure		Probe Gap (1/2/3/4)			
Loaded Motor Current		Inlet Air Temperature (stage 2/3/4)			
Unloaded Motor Current		Stator Temp (A/B/C)			
Oil Pressure		Motor Bearing Temp (DE/NDE)			
Oil Temperature		Coolant Temperature (In/Out)			
Oil Filter Differential Pressure		Compressor Discharge Air Temperature			
Air Filter Differential Pressure		Motor Inlet Air Temperature			
Gearbox Vacuum		Motor Acceleration Time (seconds)			
Additional Information					



Air Treatment Startup Form 1 of 2

The checklist information on this side and the reverse side will be needed to register the compressor.
The selling entity is responsible for the compressor registration. Registration must be entered online at
<http://warranty.sullair.com>

Before starting a compressor, read the user manual

GENERAL INFORMATION

Distributor: _____ Customer Name: _____
_____ Customer Address: _____
Contact Name: _____ City: _____
_____ State or Province/Postal Code: _____
Phone: _____ Country: _____

MACHINE IDENTIFICATION

Dryer Serial Number	Model Number	Start-Up Date	Service Technician Performing Start-Up
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PRESTART CHECKLIST

- ☐ Complete a thorough check of the equipment for shipping damage
If there is any shipping damage, contact your freight carrier for damage claim
- ☐ Check for obvious leaks and repair connections if necessary.
- ☐ Verify that the leads on starter are secure.
- ☐ Verify that the overload connections are secure.
- ☐ Verify that tubing is not damaged.
- ☐ Verify that the voltage and amp draw are correct for package.
- ☐ Verify that equipment does not have any leaks.
- ☐ Verify that the terminal strip connections are tight.
- ☐ Verify that the primary and secondary voltages are correct (i.e. transformer taps).
- ☐ Verify that the machine is properly grounded.
- ☐ After all electrical connections are made, bump to check direction of rotation.
- ☐ Verify that the bolts for the frame are properly tightened.
- ☐ Verify that the controller programming, if applicable, is correct.
- ☐ All three phase dryers must remain powered up per the user manual prior to startup.
- ☐ Start dryer and wait 10 minutes for pre-cooling.
- ☐ Verify dryer is operating correctly at no flow and full flow.

Once the dryer is started, complete the performance checklist on next page

WARRANTY INFORMATION

Air Treatment Startup Form 2 of 2

REFRIGERATED DRYER

Incoming Voltage: L1-L2 _____ L2-L3 _____ L1-L3 _____
 Suction Pressure: _____ psig or _____ bar
 Compressor Discharge Pressure: _____ psig or _____ bar
 Dew point Temperature: _____ °F or _____ °C
 Ambient Air Temperature: _____ °F or _____ °C
 Dryer Inlet Air Temperature: _____ °F or _____ °C
 Dryer Inlet Pressure: _____ psig or _____ bar
 Incoming Water: _____ City _____ Well _____ Tower
 Water Temperature IN: _____ °F or _____ °C
 Water Pressure IN: _____ psig or _____ bar
 Water Temperature OUT: _____ °F or _____ °C
 Water Pressure OUT: _____ psig or _____ bar
 Remote Start/Stop Wired: _____ Yes _____ No
 Pre Filter Installed: _____ Yes _____ No

REGENERATIVE DRYER

Has desiccant been installed: _____ Yes _____ No
 Control Voltage: _____
 Ambient Air Temperature: _____ °F or _____ °C
 Incoming Air Temperature: _____ °F or _____ °C
 Inlet Air Pressure: _____ psig or _____ bar
 Outlet Air Pressure: _____ psig or _____ bar
 Purge Pressure: _____ psig or _____ bar
 Design Dew Point: _____ -4°F, _____ -40°F, _____ -70°F, or _____ -100°F

Application: ☐ General Manufacturing/Fabrication ☐ Pulp/Paper/Woodworking ☐ Mining ☐ Petroleum
☐ Agriculture/Alt Fuels ☐ Utilities ☐ Machinery ☐ Rubber ☐ Transportation ☐ Electronics
☐ Metals ☐ Chemicals ☐ Textile ☐ Food ☐ Industrial Gas ☐ Other

Installation Comments:

WARRANTY INFORMATION

Unit Replacement Startup Form

The checklist information on this side will be needed to register the compressor.
The selling entity is responsible for the compressor registration. Registration must be entered online at
<http://warranty.sullair.com>

Before starting a compressor, read the user manual

GENERAL INFORMATION

Distributor: _____ Customer Name: _____

Customer Address: _____
Contact Name: _____ City: _____

State or Province/Postal Code: _____
Phone: _____ Country: _____

MACHINE IDENTIFICATION

Package Serial Number	Package Model Number	Start-Up Date	Service Technician Performing Start-Up
Original Compressor S/N	Original Compressor P/N	Replacement Compressor S/N	Replacement Compressor P/N

PRESTART CHECKLIST

- ☐ Remove and replace oil filter elements
- ☐ Check/Replace separator elements as necessary
- ☐ Check tank for foreign debris. Flush if necessary
- ☐ Remove and replace compressor (air end)
- ☐ Inspect thermal valve, oil stop valve, and control components or proper operation and possible cause for unit failure. If defective components are found, they should be replaced.
- ☐ Fill machine with the required fluid
- ☐ Check shutdown devices for proper function and settings
- ☐ Make sure the replacement unit is properly piped, and the drive coupling is installed and aligned
- ☐ Depending on the size of the compressor unit, pour ½ to 2 gallons of lubricant down the air intake of the compressor unit. Rotate the compressor unit by hand until the lubricating oil has completely cleared the unit before attempting to start
- ☐ Start the compressor. Allow to run for one hour and check for leaks, noise, or anything that would appear abnormal.
- ☐ Verify that the full load RPM and minimum RPM are in accordance with requirements. (Portable)

Return old compressor unit to:

Sullair LLC
3700 E Michigan Blvd Building 2
Michigan City, IN 46360

For international customers shipping items to the United States the following information must be included in your documentation and emailed to Sullair prior to loading onto the vessel:

Manufacturer of the goods, Seller of the goods, Container stuffing location (physical location of the loading of the goods into a container), Consolidator name and address (name and address of company who loaded the container), Country of Origin of the goods, Part number and serial number of the item if applicable.

Failure to supply this information may result in fines that will be charged back to you. Forward the required information to Sullair Traffic Department's email address prior to loading onto vessel: International.Traffic@sullair.com.



Section 6: Service Department Forms

SULLAIR, LLC.
Service Department
3700 East Michigan Blvd.
Michigan City, IN 46360



Telephone: 219-861-5673
Toll Free: 1-800-SULLAIR

Request for On-Site Service

When requesting on-site services, please fill out the form and email: service.department@sullair.com
Or fax to 219-578-4206 Attention: **Service Department**.

Information	Customer Information	Distributor Information
Company Name		
P.O. Number (if charged)		
Address		
City		
State		
Zip		
Person Requesting		
Service Number(s)		
Fax Number		

Sullair Equipment Information				
Model Number(s)				
Serial Number(s)				
Air End Serial Number(s)				

Personal Protective Equipment Required (check all that apply)				
<input type="checkbox"/> Arc Flash Protection	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Safety Glasses	<input type="checkbox"/> Safety Shoes	<input type="checkbox"/> Face Protection
<input type="checkbox"/> Goggles	<input type="checkbox"/> Ear Plugs	<input type="checkbox"/> Respirator	<input type="checkbox"/> Gloves*	<input type="checkbox"/> Clothing *
<input type="checkbox"/> Monitor *	<input type="checkbox"/> Other *			
* describe in detail below				

Description of Problem/Services Needed (attach photos or sketches if applicable)

Desired Date of Service				
Start Date(s)				
Start Time(s)				

Print Name / Date

Name

Date

EMAIL SERVICE

*** If Services covered under Warranty, then P.O. will not be needed*

	Pre-startup No Power on Commissioning Static checks							
Customer					VSD S/n	GO# (SULA****)		
S/n								
			Converter (Input Diodes)			M easured	Typical readings	
		Terminal	meter should be set to Diode				Eaton CH	Yaskawa
Meter +	to	B- / -	and	Meter -	to	L-1 / R	.25 - 1.5 DC	0.5 Vdc
Meter +	to	B- / -	and	Meter -	to	L-2 / S	.25 - 1.5 DC	0.5 Vdc
Meter +	to	B- / -	and	Meter -	to	L-3 / T	.25 - 1.5 DC	0.5 Vdc
Meter -	to	B- / -	and	Meter +	to	L-1 / R	"OL"	"OL"
Meter -	to	B- / -	and	Meter +	to	L-2 / S	"OL"	"OL"
Meter -	to	B- / -	and	Meter +	to	L-3 / T	"OL"	"OL"
Meter +	to	B+ / +	and	Meter-	to	L-1 / R	"OL"	"OL"
Meter +	to	B+ /	and	Meter-	to	L-2 / S	"OL"	"OL"
Meter +	to	B+ / +	an	Meter-	to	L-3 / T	"OL"	"OL"
			d					
Meter -	to	B+ /	and	Meter +	to	L-1 / R	.25 - 1.5 DC	0.5 Vdc
Meter -	to	B+ / +	and	Meter +	to	L-2 / S	.25 - 1.5 DC	0.5 Vdc
Meter -	to	B+ / +	and	Meter +	to	L-3 /	.25 - 1.5 DC	0.5 Vdc
					T			
			Inverter (IGBT' s)					
			meter should be set to Diode check					
Meter +	to	B- / -	and	Meter -	to	U1	.25 - 1.5 DC	0.5 Vdc
Meter +	to	B- / -	and	Meter -	to	V2	.25 - 1.5 DC	0.5 Vdc
Meter +	to	B- / -	and	Meter -	to	W3	.25 - 1.5 DC	0.5 Vdc
Meter -	to	B- / -	and	Meter +	to	U1	"OL "	"OL"
Meter -	to	B- / -	and	Meter +	to	V2	"OL"	"OL"
Meter -	to	B- / -	and	Meter +	to	W3	"OL"	"OL"
Meter +	to	B+ / +	and	Meter -	to	U1	"OL"	"OL"
Meter +	to	B+ / +	and	Meter -	to	V2	"OL"	"OL"
Meter +	to	B+ / +	and	Meter -	to	W3	"OL"	"OL"
Meter -	to	B+ / +	and	Meter +	to	U1	.25 - 1.5 DC	0.5 Vdc
Meter -	to	B+ / +	and	Meter +	to	V2	.25 - 1.5 DC	0.5 Vdc
Meter -	to	B+ / +	and	Meter +	to	W3	.25 - 1.5 DC	0.5 Vdc
			DC Bus					
			Meter should be set to Diode check					
Meter -	to	B- / -	and	Meter +	to	B+ / +		
			Meter should be set to Ohms				" OL"	
Meter -	to	B- / -	and	Meter +	to	ground	Meg ohms	
Meter -	to	B+ / +	and	Meter +	to	ground	Meg ohms	

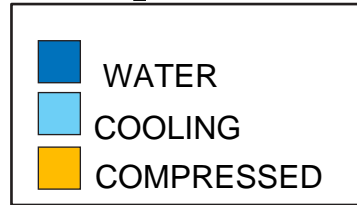
Troubleshooting Map

Date: _____

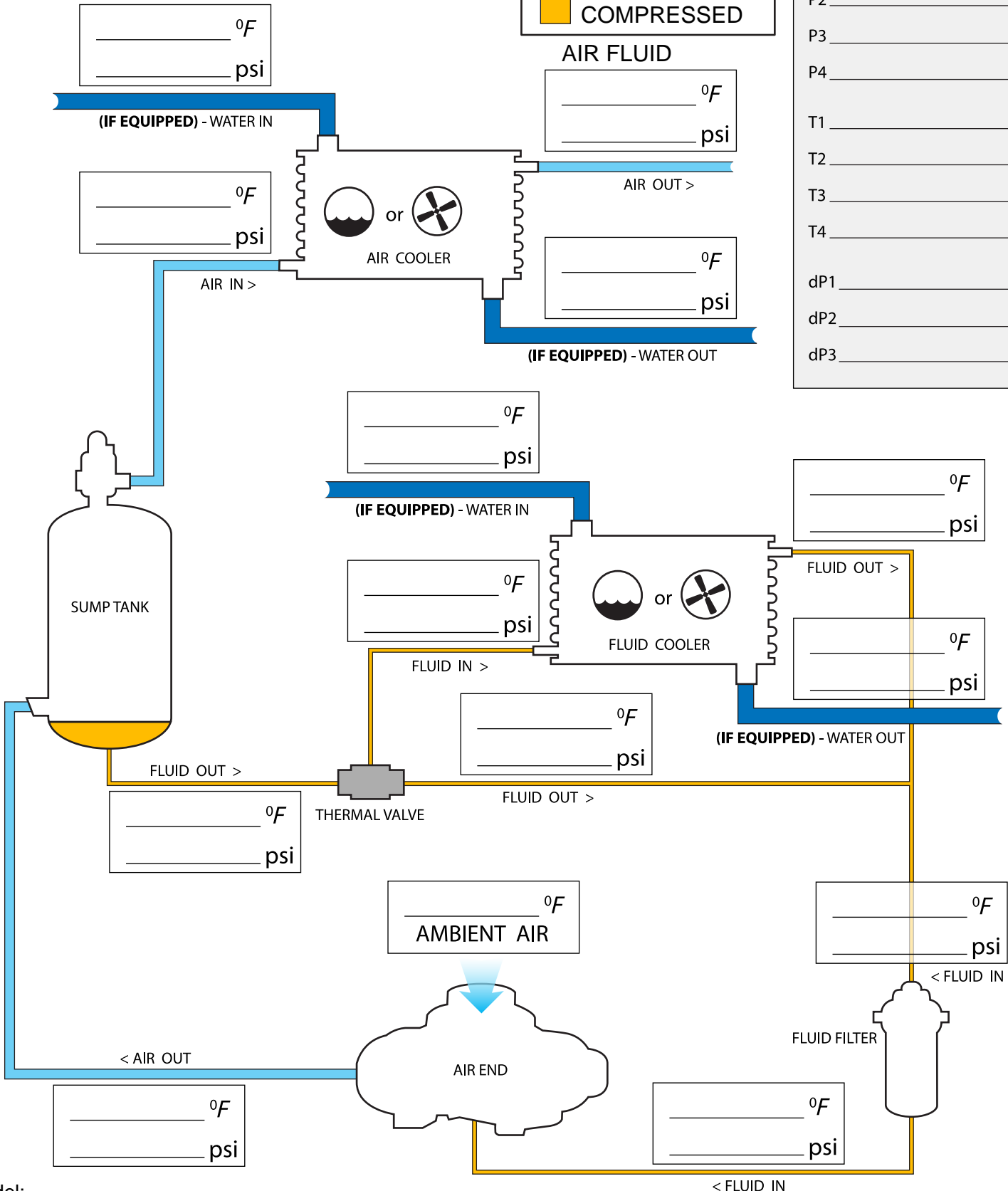
Time: _____

Model: _____

Serial Number: _____



CONTROLLER PANEL	
P1	_____
P2	_____
P3	_____
P4	_____
T1	_____
T2	_____
T3	_____
T4	_____
dP1	_____
dP2	_____
dP3	_____



Model:

WARRANTY INFORMATION

Separator Failure Form

1. Please supply photos of failed part(s); overall photo, close up of damaged section, 5-digit date code on endcap.
2. (*) – must be completed

Field Warranty Data

Date:		
End-user name:		
Distributor name and location:		
Machine Model (*):		
Machine Serial Number (*):		
Sullair Service Case #		
Compressor oil (*):		
Duty Cycle:		
Part number of air filter (*):		
Part number of oil filter (*):		
Part number of oil separator (*):		
Hourmeter reading when air filter was (*)	Installed:	Replaced:
Hourmeter reading when oil filter was (*)	Installed:	Replaced:
Hourmeter reading when oil separator was (*)	Installed:	Replaced:
First incident or repeat		
Operating conditions	Pressure:	Discharge temp:
Oil separator pressure drop	Replaced Part:	Newly Installed:
Date of last oil change:		
Date of last oil analysis:		
Application:		
All setpoints from controller (ex: WSPC rpt) (*)		
Description of failure (*):		



Section 7: Oil Sample



Oil Sample Best Practice

- Per the warranty policy handbook, oil samples must be taken every 2,000 hours or 6 months whichever occurs first.
- Always use Sullair Oil Sample Kit.
 1. North America - 02250138-667
 2. Latin America – 02250219-017
- Sample should be pulled from Oil Sample Port valve whenever possible. Sample Port Valve part number is 02250196-306 (1/8" NPTF, Viton).
- Sample Valve should be installed downstream of oil filter (1/8" port on most machines located in filter housing).
- To ensure oil sample does not get lost in mail, always use Fed Ex or UPS so that package can be tracked.
- Review and follow Tech Tip STT-17005.
- Review oil sample report to ensure optimal machine and lubricant condition.
- If sample report shows Marginal or Critical it is the responsibility of the party servicing the machine to take action.
 1. Review report for abnormal readings.
 2. Determine best course of action to reduce abnormal readings in future samples.
 3. If course of action is not clear, work with Sullair Service to determine best course of action.
 4. Document course of action in case there is a question from the warranty department.
 5. Re-sample. Sample report must show "Normal" sample or documented course of action within 30 days from previous sample report date to continue any extended warranties.
 6. If 3 or more oil samples for the same machine show marginal or critical you must contact the Sullair Service department for guidance within 30 days of last sample date.
 7. Per the warranty policy handbook *"two consecutive "bad" samples void the extended warranty"*.
 8. ***"Bad" Sample is referred to as Marginal or Critical without following steps 1-6 above requirements.***
- Oil Sampling detailed data can be found at:
 1. North America - <https://datasight.testoil.com/Datasight/Login.aspx>
 2. Latin America - <https://www.eoilreports.com/login>
- Sullair Oil Sample Lab User Account Creation:
 1. North America - <http://testoil.com/registration>
 2. Latin America - <https://www.eoilreports.com/login>



Section 8: New User Account Request Form



***Sullair Global Warranty System
New User Account Access Form***

GENERAL INFORMATION (Distributor/Customer)

Distributor/Customer Name: _____

Address: _____ City: _____

State or Province: _____

Postal Code: _____ Country: _____

Phone: _____

User First Name: _____ Last Name: _____

Email: _____ Position: _____

Distributor/Customer Corporate Account No registered at Sullair: _____

Branch Account No: _____

Branch Account No: _____

Branch Account No: _____

Branch Account No: _____

Branch Account No: _____

Branch Account No: _____

Branch Account No: _____

Branch Account No: _____

Branch Account No: _____

Branch Account No: _____

(List only active account numbers)

Email this form at: warranty@sullair.com