

1. Approving Civil Aviation Authority/Country: 2.

FAA/United States

# AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-A, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:

31752482

4. Organization Name and Address:

B/E Aerospace 3355 East LaPalma Ave., Anaheim, CA 92806 (B98R479N)

5. Work Order/Continuing Airworthiness Number:

1099

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status (e.g., Inspected, Repaired)
1	AIR CHILLER 4000 BTU/HR	374-9	1	1677	Inspected

12. Remarks: This repair order: 9779016 Describes actual repair work in detail. All work IAW CMM: 25-30-48 Date: 12/12/2011 Rev: 3

"Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number: EASA.145.4231"

Service Bulletins Incorporated: IAW CMM

13a. Certifies the items identified above were manufactured in conformity with:

- Approved design data and meets a condition for safe operation.
- Non-approved design data specified in Block 12.

14a.  14 CFR 43.9 Return to Service  Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature: N/A

14b. Authorized Signature: *[Signature]*

14c. Approval Certificate No.: B98R479N

13d. Name (Typed or Printed): N/A

14d. Name (Typed or Printed): *[Signature]*

14e. Date (dd/mm/yyyy): 10/Jul/2018

### User/Installer Responsibilities

It is important to users that the presence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures the user/airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

## REPAIR FINDINGS ANALYSIS / TEARDOWN REPORT

FAA Repair Station#: B98R479N	Date: 07/11/2018
Company Name: B/E Aerospace	Customer Name: BURWOOD AVIATION SUPPLIES
FSC#: 60299	Address1: ATTN: DARON GOLDING
Address1: 355 East LaPalma Ave.	Address2: BURWOOD HOUSE
Address2:	City St Zip: CHOBHAM,SURREY BH31 6AZ GB
City St Zip: Anaheim CA 92806	Contact:
Phone: 714-688-4700	Phone:
Fax: 714-688-4764	Fax:

Information from Purchase Order		
Repair Order#: 109937	Part# from PO: 374-9	Serial# from PO: 1677
		Customer Serial# on Order:
Purchase Order Reason: NO REASON GIVEN. REPAIR ACC TO LATEST *** SEE APPROVED ESTIMATE *** CARLA 4/15/18		

Information for Part Received			
Repair ID#: 75777	Work Order#: 977016	Mfr. p/n Recvd: 374-9	Mfr. Serial# Recvd: 1677
Date Recvd.: 06/18/2018	Description: AIR CHILLER 4000 BTU/HR		
Compressor p/n Recvd: 581-11	Compressor Serial# Recvd: 2361	Fan p/n Recvd: 2300-20	Fan Serial# Recvd: 30498
PC Board #1 p/n Recvd: 6954-3	PC Board #1 Serial# Recvd: 214025	PC Board #2 p/n Recvd: 6949-5	PC Board #2 Serial# Recvd: 64839

Initial Inspection Findings: N/A 14X29X26 W92
Initial Testing Findings: PMA LABEL: PMA, Present Qty 1; UNIT APPEARANCE: Unit Dirty;

Repair Administration Comments: Analyze Comments: As received, the unit was dirty. Checked power receptacles for short or ground found ok. Powered up, unit fan and produced cold air. Sight glass had cleared. The operation light working fine. Verified four power connector and polarity. Removed the covers from both side and perform internal inspection and notice orange seal applied some area see pictures. Internal was slight dirty. Wirings were inspected to be OK and no loose connection. All temperature sensors measured in range. The unit ran ok during the functional test at analyze station up to continue performance evaluation. Steven.N 06/18/18. Verified unit on the test stand with heat load and ambient applied, the return was observed at 48°F, suction was 20 psi. Suspected compressor is not performing up the minimum standard. Compressor performance poorly. Proceed and repair per test Tech provided finding.
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Warranty: <input type="radio"/> Accepted <input type="radio"/> Denied <input type="radio"/> Partial	Reason:
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**Information for Part Shipped Back**

Sales Order#: 2152482	Mfr. p/n Out: 374-9	Mfr. Serial# Out: 1677
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Teardown and Inspection details:

**Unit**

PMA LABEL: PMA, Present Qty 1;  
 UNIT APPEARANCE: Unit Dirty;  
 AIR FILTER : Air Filter, Dirty;  
 COMPRESSOR: Poor Performance; Sent For Evaluation;  
 CONDENSER: Fins Smashed;  
 REFRIGERANT CIRCUIT: Flush;  
 EVAPORATOR: Fins Smashed  
 ELECTRICAL: Elect. Conn, Failed; Evaporator Thermistor (Blue), Failed; Evaporator Thermistor (Yellow), Failed;  
 CONDENSER BLOWER WHEEL: Blower Wheel, Dirty;  
 EVAPORATOR BLOWER WHEEL: Blower Wheel, Dirty;  
 CONDENSER SCROLL OR BI-DUCT: Blower dirty

**Compressor**

OIL: 4 Ounces; Amber;  
 PUMP: Parts Worn Or Scored; Pump, Failed;  
 HARNESS: Thermistor, Failed;

**Refrigerant**

REFRIGERANT CIRCUIT: Flush; R134A

**Pump**

CMM Ref. 1: 25-30-48 Rev Date: 12/12/2011 Rev: 3

Corrective Actions:

**Unit**

PMA LABEL:  
 Remarks: One PMA label is on the unit.  
 UNIT APPEARANCE: Cleaned Unit;  
 AIR FILTER : Air Filter, Replaced ;  
 COMPRESSOR: Installed Compressor;

CONDENSER: Straightened Fins;  
 REFRIGERANT CIRCUIT: Flushed;  
 EVAPORATOR: Straightened Fins;  
 ELECTRICAL: Elec Conn, Replaced ; Thermistor(s), Replaced ;  
 CONDENSER BLOWER WHEEL: Blower Wheel, Cleaned;  
 EVAPORATOR BLOWER WHEEL: Blower Wheel, Cleaned;  
 CONDENSER SCROLL OR BI-DUCT:  
 Remarks: Clean bi duct

### Compressor

OIL: Changed new oil;  
 PUMP: Pump, Replaced;  
 HARNESS: Thermistor, Replaced;

### Refrigerant

REFRIGERANT CIRCUIT: Flushed;  
 Remarks: R134A

### Pump

Purchase Order Instructions complied with:

Inspected  Repaired  Modified  Overhauled

### Replacement Parts/Services for Parts Shipped Back

Type	Item	Description	Qty/Hrs	UPR/Rate
LABOR	510	REPAIR - ORDER RELEASE	0.00	\$0.00
LABOR	530	REPAIR - TEST TECH ANALYZE	0.00	\$0.00
LABOR	550	REPAIR - TECH TEARDOWN	0.00	\$0.00
LABOR	570	REPAIR - COMPRESSOR TECH	0.00	\$0.00
LABOR	574	FLUSHING TECH	0.00	\$0.00
LABOR	590	REPAIR - TECH REPAIR	0.00	\$0.00
LABOR	600	REPAIR - TEST TECH ATP	0.00	\$0.00
LABOR	630	REPAIR - INSPECTION	0.00	\$0.00
MATL	2101-32	PUMP ASSEMBLY 32 SERIES	1.00	\$0.00
MATL	2548-14	SCREW CRES 10-32X3/4 POLY LOK	3.00	\$0.00
MATL	2550-3	WASHER CRUSH	3.00	\$0.00

MATL	3124-1	GROMMET	1.00	\$0.00
MATL	4135-1	AIR FILTER	1.00	\$0.00
MATL	4815-1	SPIRAL CUT WRAP.25 O.D. 5.5 lg	1.00	\$0.00
MATL	581-11-0P2	COMPRESSOR SERVICE KIT	1.00	\$0.00
MATL	6560-1	SCREW,STATOR RETAINER	1.00	\$0.00
MATL	X10180	ORIFICE #1; DANFOSS# 68-2010	1.00	\$0.00
MATL	X13810	FILTER DRYER EK032	1.00	\$0.00
MATL	X15740	THERMISTOR STX0092	1.00	\$0.00
MATL	X15750	THERMISTOR STX0093 20AWG Wht/y	1.00	\$0.00
MATL	X15750	CONN. MS24266R16B10PN (X24010)	1.00	\$0.00
MATL	X30710	STD CONSUMABLES/ENV SRVC CHRГ	1.00	\$0.00
MATL	X31280	MAJOR REPAIR FEE	1.00	\$9,731.00
MATL	X32300	THERMISTOR STX0131	1.00	\$0.00
Material Price: \$9,731.00			Labor Price: \$0.00	Total Price: \$9,731.00