DECLARATION OF CONFORMITY
ATEX Certified Portable Fans

This Declaration of Conformity is issued for ATEX certified, flame proof, increased safety, portable fans, intended for use in potentially explosive atmospheres, manufactured by Euramco Safety, Inc. as referenced herein.

Issue Date:	**June 24, 2022**
Manufacturer:	**Euramco Safety, Inc.** 2746 Via Orange Way Spring Valley, CA 91978 USA
Equipment Descriptions:	**UB20xx** 8" / 20 cm ATEX Blower Exhauster **EFi75xx** 12" / 30 cm ATEX Blower Exhauster **EFi120xx** 16" / 40 cm ATEX Blower Exhauster **EFi150xx** 16" / 40 cm ATEX Blower Exhauster
Hazardous Location Rating:	**II 2 G Ex db eb IIB T6 Gb** **II 2 G Ex h IIB T6 Gb** **Zone 1, 2** **T6, non-mining gases up to 85˚C**
Certification Number:	**0539 DEMKO 09 ATEX 0926969X**
IECEx Certification Number:	**IECEx UL 13.0062X**
Notification Number:	**10 ATEX Q137286**
Notified Body:	**UL International DEMKO A/S, Notified Body Number 0539** Borupvang 5A 2750 Ballerup, Denmark
Standards to which Certificate Applies:	**EN 60079-0:2018** **EN 60079-1:2014** **EN 60079-7:2015+A1:2018** **EN 14986:2017**
Self-Declared Compliance Directives:	**2006/42/EC** – Machinery Directive **2014/30/EU** – EMC Directive **2011/65/EU** – RoHS – Reduction of Hazardous Substances Directive

Specific condition of use:

1) This special condition of safe use refers to the fact that the Hazardous Location Fans may be purchased with or without an AC power plug termination for the power cable. The flame proof joints are not intended to be repaired.
2) This applies to the aluminum enclosure box type: 05 080806 applies to empty enclosures.

Vibration **EN14986, 4.9**

All EFi75xx, EFi120xx and EFi150xx Fan impellers are balanced in accordance with ISO 14694 limits as described below. UB20xx Fan impellers are injection molded plastic, attached to the shaft of a 1/3 hp motor without vibration issues.

These fans best fit the Fan-Application Category of BV-3.
For a fan-application of BV-3 the balance quality grade for rigid impellers is G = 6.3.

The permissible residual unbalance condition for these impellers is determined by the equations below from ISO 14694.

U_{per} = m x e_{per} g.mm
Where:
e_{per} = (G * 1000) / ω
ω = (2π * N) / 60
1mm = 0.03937ins.

Then:

U_{per} = (60 x m_{kg} x G x 1000 x 0.03937ins/mm) / (2 π x N x R) grams at distance R from center of impeller hub.

Where:
m_{kg} = Mass of impeller in kgs
N = Rotational speed of impeller in rpm
R = Distance from center of impeller hub to balance adjustment circle

See table for permissible residual unbalance conditions for the Fan Models / Impellers listed below. All impellers are balanced not to exceed a residual unbalance condition by 0.25 grams.

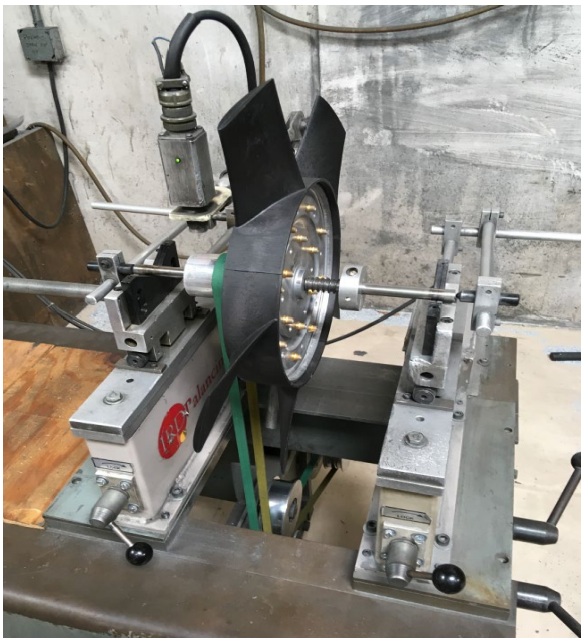
MAXIMUM PERMISSIBLE RESIDUAL UNBALANCE CONDITION

FAN MODEL	IMPELLER	BV BALANCE GRADE	RPM	WEIGHT (lbs)	WEIGHT (kg)	RADIUS R	PERMISSIBLE RSIDUAL UNBAL.
EFi75xx	BL008	6.3	3450	4.228 lbs	1.918 kg	4.380 in.	0.3006 g
EFi120xx	BL906	6.3	3450	3.848 lbs	1.745 kg	3.240 in.	0.3698 g
EFi150xx	BL914	6.3	3450	3.920 lbs	1.778 kg	3.240 in.	0.3768 g
UB20xx	BL011	NA	3450	0.514 lbs	0.233 kg	NA	NA

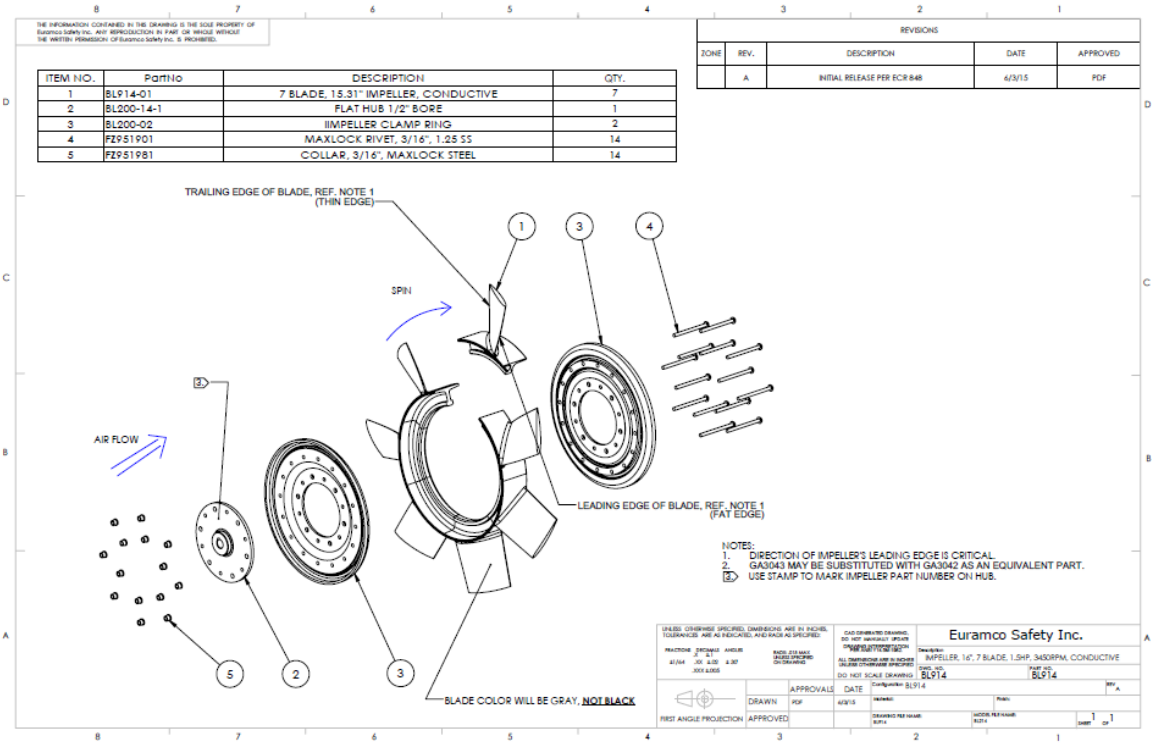
Note: UB20xx is a 1/3 HP fractional fan. Impeller is a precision injection molded part and does not require balancing.

Impeller Balancing Station

Every impeller is balanced on the IRD balancing test station. Impeller balancing is achieved by adding weight or by removing material from at the distant “R” from the center of the impeller hub until a residual out of balance condition is ≤ 0.25 grams.



Hybrid Impeller Part Number BL914



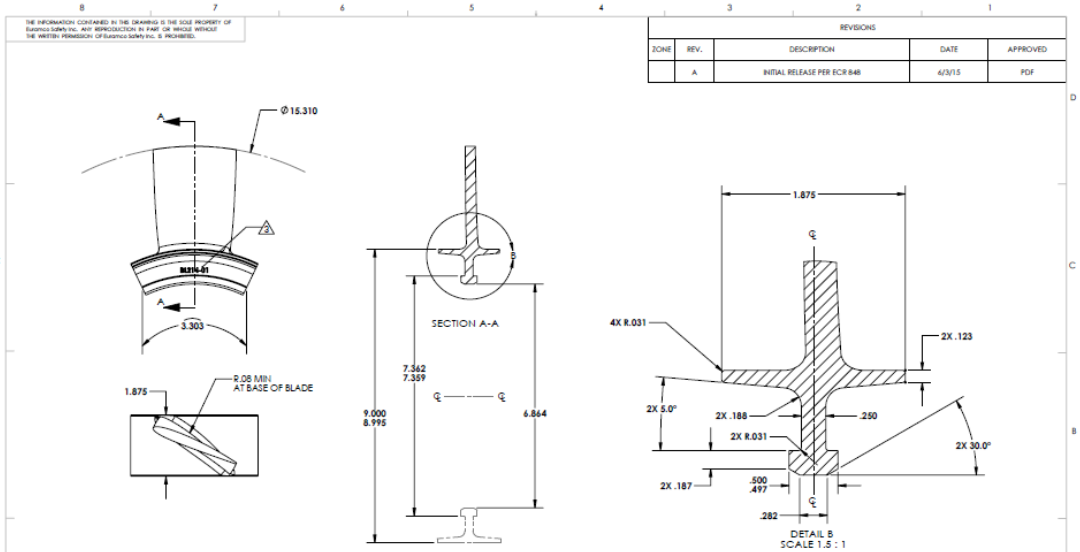
ITEM NO.	PartNo	DESCRIPTION	QTY.
1	BL914-01	7 BLADE, 15.31" IMPELLER, CONDUCTIVE	7
2	BL200-14-1	FLAT HUB 1/2" BORE	1
3	BL200-02	IMPELLER CLAMP RING	2
4	FZ951901	MAXLOCK RIVET, 3/16", 1.25 SS	14
5	FZ951981	COLLAR, 3/16", MAXLOCK STEEL	14

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	INITIAL RELEASE PER ECR 848	6/3/15	PDF

NOTES:
1. DIRECTION OF IMPELLER'S LEADING EDGE IS CRITICAL.
2. GA3043 MAY BE SUBSTITUTED WITH GA3042 AS AN EQUIVALENT PART.
2. USE STAMP TO MARK IMPELLER PART NUMBER ON HUB.

Euramco Safety Inc.
IMPELLER, 16", 7 BLADE, 1.5HP, 3450RPM, CONDUCTIVE
DO NOT SCALE DRAWING BL914 PART NO. BL914

Impeller Blade, Part Number BL914-01



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NOTES:
1. BLADE DATA INCLUDED WITH SOLID MODEL.
2. THIS PART SHALL BE MOLDED WITH THE BL214-01 MOLD.
3. MATERIAL: PC/ABS ALLOY
MATERIAL MANUFACTURER PART NUMBER: RTP 2599 X 121803 JC-888564 GRAY .
COLOR: GRAY.
NO SUBSTITUTES ALLOWED WITHOUT PRIOR WRITTEN CONSENT.
4. PART WILL BE EMBOSSED WITH MARKINGS AND REVISIONS FOR BL214-01.
5. BL914-01 MUST FIT BETWEEN TWO SAMPLES OF CLAMPING RING BL200-02 AS PART OF INSPECTION AND PART ACCEPTANCE.

Euramco Safety Inc.
7 BLADE, 15.31" IMPELLER, CONDUCTIVE
DO NOT SCALE DRAWING BL914-01 PART NO. BL914-01

Euramco Safety, Inc. hereby declares that equipment described above conforms with the protection requirements of ATEX Council Directive 2014/34/EU on the approximation of the laws of the Member States Concerning Equipment and Protection Systems Intended for use in Potentially Explosive Atmospheres.

Euramco Group

Wayne Allen
President and CEO

3/13/2023

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