

PERPETUAL BALANCE

Certificate of balance

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BALANCING MACHINE MAKE : DIA MODEL NUMBER : EB1800XL

SERIAL # 45190306 DATE OF CALIBRATION: 7/31/2006

NEXT CALIBRATION DUE : 7/31/2007 CALIBRATED BY : LEROY SAUNDERS

WEIGHT OF ROTOR ASSEMBLY : 16 POUNDS. DESIGN OPERATING RPM OF ROTOR : 1750

BALANCING TOLERANCE FORMULAS

$$\frac{4W}{N} = U \quad 1000 \text{ RPM} + \quad \frac{4000W}{N} = U \quad 150 - 1000 \text{ RPM}$$

U = MAXIMUM ALLOWABLE RESIDUAL UNBALANCE IN OUNCE INCHES, STATIC BALANCE
W = WEIGHT OF ROTATING PARTS IN POUNDS
N = MAXIMUM OPERATING RPM OF ROTATING PARTS BEING BALANCED
FOR DYNAMIC BALANCE DIVIDE U BY 2

COMPUTATION OF ALLOWABLE UNBALANCE IN OUNCE INCHES

$$\frac{12 \times 4}{1750} = \frac{0.027}{2} = .013$$

ALLOWABLE TOLERANCE : .013 OUNCE INCHES

Above is the allowable tolerance for the Fan Assemblies provided by Bake Tech Pros for balancing. We have balanced the Fan Assemblies to a tighter tolerance of .002 ounce inches or less.

DATE : 12-19-2006 PB JOB # _____ NA _____ BALANCED BY : Leroy Saunders