DOCKET

10-RADB-1

DATE APR 26 2010

RECD. APR 26 2010

CEC Review

April 26, 2010

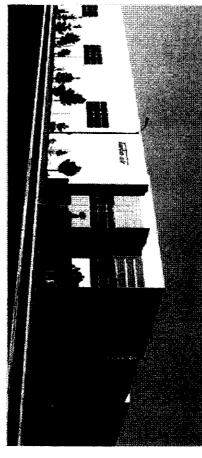
Turbo Air, Inc





1. Company Introduction

- Established in 1997 and manufactured quality commercial refrigeration
- ► Certifications: UL, NSF, ISO9001 Energy Star, CEC
- ▶ 81 Employees
- Headquarters in Carson, CA



USA factory Openning 2012 Owns two manufacturing facilities in Korea and China

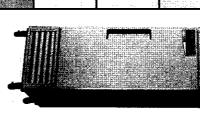
statement; Dedicated to provide customer good quality as addressed on the mission

products and services possible We will achieve this recognition by consistently providing the highest quality To be the most respected and trusted company in the foodservice industry.



2-1. TSR-23SD

Report on 12/16/2002	3.58 kWh //day	Certification test
0.833 kWh (21.1 %) ↓ than requirement and close to the test back in 2002	3.132 kWh / day	2nd random sample test
1.135 kWh (28.6 %) ↑ than requirement	5.105 kWh / day	1st random sample test
Volume 19.3 Cu Fi	3.97 kWn / day	CEC Requirement



- incorrect testing procedures were performed. The 1st unit tested might have been defective by the factory or the
- No specification changes since 2002



- 2-1. TSR-23SD Cont'd
- Current activity

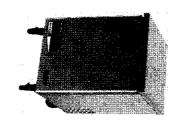
Star 2.0" Standard. This produced favorable results Recently developed improved energy efficiency by setting the digital control to the compressor with two (2) sensors in the unit to meet "Energy

factory. Its daily power consumption is 2.51 kWh. See attachment. Modified sample was tested at CEC approved test lab in the Premier



2-2. TUR-28SD

Certification test	2nd random sample test	1st random sample test 3.612 kWh / day 0.872 kWh (31.8 %) ↑ tl	CEC Requirement
1.46 Wh /day	3.495 kWh / day	3.612 kWh / day	2.74 kWh / day
Report on 1/9/2008	3.495 kWh / day 0.725 kWh (26.5 %) ↑ tl	0.872 kWh (31.8 9	Volume 7.0 Cu. Ft
	%) ↑ than requirement	%) ↑ than requirement	

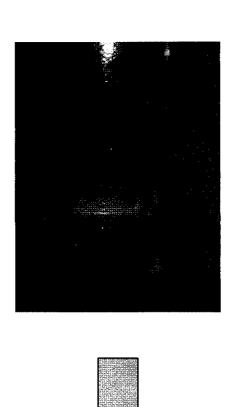


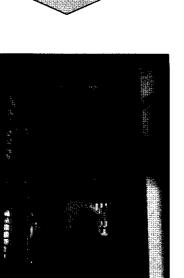
consumption and report to CEC. requests from the market but failed to review the affected power Factory modified two components on the model Feb. 2008 to meet the



- 2-2. TUR-28SD -- Cont'd
- ➤ Specification changes
- 1)Inner liner material

ABS → Stainless; No affects to power consumption

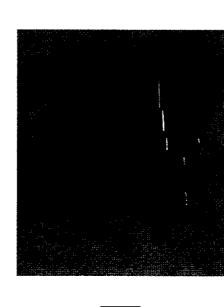






2-2. TUR-28SD - Cont'd

2)Condenser fan motor & Blade : Affects to power consumption











Model: IS-4420DWSN-2A

Q'ty: 1 piece

Input: 43 W

Input : 12 W

Q'ty: 2 pieces

Model: IS-3210DWNFH-5

Fan blade : Dia. 3.9 inches

Fan blade: Dia. 6.9 inches



2-2. TUR-28SD - Cont'd

3) Errors

assumed the modifications did not need to be reported to CEC those two parts 0.252 kWh per day and has not performed actual test and Factory simply calculated the power consumption difference between

consumption. heat exchange on the condenser coil and causes more power The factory did not realize the new larger fan motor & blade accelerate

been sold to the Californian market up to 4/21/2010. 4) Modified units were manufactured from Feb. 2008 and 135 units have

Grand Total	TUR-28SD	ITEM_CODE
91	91	2008
32	32	2009
12	12	2010
135	135	Grand Total



- 2-2. TUR-28SD Cont'd
- Current activity

and recently developed the solution to meet the requirements by gearing We noticed the high power consumption thanks for the letter from CEC and submitted new test report to CEC on 4/19. compressor and evaporator fan motors. It spends 1.693 kWh per day now