

## 호주 인증시험기관에서 시험한 결과보고서

호주의 정부 공인시험기관에서 Turbu-Flow의 스케일방지 성능을 확인코저 시험한 결과 보고서입니다.

2대의 가스 순간온수기를 하나는 Turbu-Flow를 장착하고 다른 하나는 그대로 설치하고 18개월 동안 연속 가동한 후 온수기의 열교환기 동튜브를 절개해서 내부를 확인한 결과 Turbu-Flow가 장착되었던 온수기의 경우는 스케일이 형성되었다는 어떤 증거도 없었다. 즉 Excellent 하다고 결론을 내리고 있습니다.

**CONFIDENTIAL**



**WATER  
AUTHORITY**  
of Western Australia

942/67  
Mr P. Rule  
(09)445 4655 Fax No. (09)445 1970

629 NEWCASTLE STREET  
LEEDERVILLE W.A.  
Postal Address: P.O. Box 100 Leederville  
Western Australia 6007  
Telephone: (09) 420 2420 Telex: AA 95140

HOMESWEST  
99 PLAIN STREET  
EAST PERTH W.A. 6000

ATTENTION: Mr J.E. Shaw

Dear Sir,

**INSPECTION OF PYROX INSTANTANEOUS GAS WATER HEATERS**

An inspection of the two water heaters supplied has been carried out as requested, and our reports are attached.

The inspection procedure was as follows:

**(1) Flow Tests -**

Each heater was mounted in the normal vertical position, and a water supply attached to the water inlet connection. A 400 kPa pressure gauge was mounted at the inlet connection. The outlet connection of the heater was open to atmosphere, and the discharge was measured using a graduated container.

With the water temperature control turned to the minimum setting (i.e. maximum water flow), a series of three flow tests were carried out at an inlet flow pressure of 300 kPa. The water temperature control was then turned to the maximum setting (i.e. minimum water flow) and a series of three flow tests carried out at an inlet flow pressure of 350 kPa.

The heat exchanger coil was then removed from each heater and flow tested using the same procedure as above, at a flow pressure of 100 kPa.

**(2) Visual Examination -**

The ends of the heat exchanger coil were cut off to enable an examination of the internal surfaces of the heat exchanger tubes to be made. The surfaces were

checked for any scale build-up.

Yours faithfully

A handwritten signature in cursive script, appearing to read 'H. Vandenberg', written in dark ink.

H. Vandenberg  
PRODUCT AUTHORISATION OFFICER  
TECHNOLOGY TRANSFER & TECHNICAL AUDIT BRANCH  
MAY 9, 1988 PR:GJW  
enc:

REPORT ON UNIT NO. 2



DATA

Make: Pyrox  
Model: 2507 TMPP Topliner HW  
Serial No: 012657  
Type: Modulating  
Heat exchanger coil marked "KF"  
Location of installation: Unit F, 5 Sargent St,  
Exmouth  
Installation period: December 1986 - April 1988  
Water treatment device: Turbuflow Water Conditioner

FLOW TESTS

1. Through heater:

Temperature Setting	Inlet Flow Pressure (kPa)	Average Flow (l/min)
Minimum	300	13
Maximum	350	5

2. Through heat exchanger coil:

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The above flow rates compare favourably with figures supplied by the manufacturer for new heaters.

VISUAL EXAMINATION

No evidence of any scale build-up was found. There was a very thin surface scale coating together with a greenish oxide deposit, otherwise the tubes were in excellent condition.