

Summary Report for Boiler Efficiency Testing including faults and Repairs 2016
(Permit Ref EPR/BV5386IX section 2.2.8, Table 2.2.11 and Variation V003, Table S2)

Emission point A35 Factory No.1 Hydro setting oven lane 1 - Copy of report provided.
No faults identified and boiler efficiency satisfactory. **Complete.**

Emission point A36 Factory No.1 Hydro setting oven lane 2 - Copy of report provided.
No faults identified and boiler efficiency satisfactory. **Complete.**

Emission point A38 Factory No.2 Pellet Caster, Gas Burner Stack No.1 - Copy of report provided.
No faults identified and boiler efficiency satisfactory. **Complete.**

Emission point A39 Factory No.2 Pellet Caster, Gas Burner Stack No.2 - Copy of report provided.
Pressure switch replaced in August 2016.
No faults identified in December 2016 and boiler efficiency satisfactory. **Complete.**

Emission point A46 Factory No.1 Gas Drying Oven No.1 Burner - Copy of report provided.
Ignition electrodes changed and boiler efficiency satisfactory. **Complete.**

Emission point A48 Factory No.1 Gas Drying Oven No.2 Burner - Copy of report provided.
Ignition electrodes changed and boiler efficiency satisfactory. **Complete.**

Emission point A50 Factory No.1 Gas Drying Oven No.3 Burner - Copy of report provided.
Ignition electrodes changed and boiler efficiency satisfactory. **Complete.**

Emission point A52 Factory No.1 Gas Drying Oven No.9 Burner - Copy of report provided.
Ignition electrodes changed and boiler efficiency satisfactory. **Complete.**

Emission point A54 Factory No.1 Gas Drying Oven No.10 Burner - Copy of report provided.
Ignition electrodes changed and boiler efficiency satisfactory. **Complete.**

Emission point A57 Factory No.3 South East, Combat Heater No.2 - Copy of report provided.
Boiler serviced and efficiency satisfactory. **Complete.**

Emission point A62 Factory No.1 Hydro setting oven lanes 3 and 4 - Copy of Report provided.
Burner control box replaced and full service undertaken. Boiler efficiency satisfactory. **Complete.**

Emission point A63 Factory No.2 Combat Heater No.5 - Copy of Report provided.
Cleaned water heater opening and may require a new seal later. Being monitored and boiler efficiency satisfactory. **Complete.**

Note:

Due to the characteristics of the equipment listed below, conventional combustion analysers are not suited to the application.

Emission points A10 Factory No.1 Grid Casting Aging Oven No. 1.

Emission points A21 Factory No.1 Grid Casting Aging Oven No. 2.

Emission point A44 Factory No.1 Flash Drying Oven No.2.

Emission point A45 Factory No.1 Flash Drying Oven No.3.

Emission point A61 Factory No.1 Dross Recycling Burner.

The following have been decommissioned therefore are not subject to annual testing:-

Emission point A56 Factory No.3 South West, Combat Heater No.1, - Not in service. Decommissioned.

Emission point A58 Factory No.3 North East Combat Heater No.3 - No report provided. Not in service

Emission point A59 Factory No.2 0.85MW_{th} Steam Boiler - No report provided. Not in service.

Emission point A60 Factory No.2 1.75MW_{th} Steam Boiler - No report provided. Not in service.

Emission point A64 Factory No.1 Previously Combat Heater No.5 – Unit transferred to emission point A63.

3862



HEATING, AIR CONDITIONING AND REFRIGERATION ENGINEERS

HYDRO Ovens
1 & 2

CLIENT: Yves Babin

SITE LOCATION: Riverside Rd
est

CONTACT: _____

ARR. TIME: 8:30

DEP. TIME: 1:30

NORMAL HRS: 3 3

TRAVEL HRS: 1 1/2

ABNORMAL HRS: _____

TRAVEL HRS: _____

TOTAL HRS: 7 1/2

MILEAGE: 63

SAT: _____ SUN: _____

ENGINEER: Alfred

DATE: 12-18-Dec-16

VEHICLE REG: LM12NLS

Work Complete? YES ☒ NO ☐

Separate Report? YES ☐ NO ☐

CHECK DATE: _____

REPORT:

Model: NVS301D/1/Mod X2

Serial No: N30116799 - N30116202

Location: Wing Ovens

22146

Load to site
Hot Service on previous load
Check that cylinder is clear before
burn. Cylinder test
clear. Then
open for gas
3 heaters
in service until
heated

MATERIALS USED	
Order Number	Supplier

MATERIALS REQUIRED:

ENGINEER'S SIGNATURE: Alfred

TP1709A
Far. 2 A36

Date: 12/18/16
Time: 14:15
Fuel: Natural Gas

Report:

CO(ppm): 7
CO2(%): 14.4
CO2(%): 13.6
Ratio(CO/CO2): 0.0001
CO Air Free(ppm): 22
Excess Air(%): 201
Net Efficiency: 96.6
Temp_CH1(F): 107
Temp_CH2(F): Open

Smoke: 1 0 0 0 0

Customer: _____

Address: _____

Reading Accepted by: _____

TP1709A
Near 1 A35

Date: 12/18/16
Time: 09:52

Fuel: Natural Gas

Report:

CO(ppm): 7
CO2(%): 14.4
CO2(%): 13.6
Ratio(CO/CO2): 0.0001
CO Air Free(ppm): 22
Excess Air(%): 201
Net Efficiency: 96.6
Temp_CH1(F): 107
Temp_CH2(F): Open

Smoke: 1 0 0 0 0

Customer: _____

Address: _____

Reading Accepted by: _____

09:50, 12/18/16

ANT COMMISSIONING/SERVICING RECORD (NON-DOMESTIC)



K455 V 1.86B

TREMORFA Ltd.
02920 330000

SERIAL NO. 182813104

DATE 07/12/16
TIME 13:14:15

A38

COMBUSTION

FUEL	NAT	GAS
O2 %		8.5
CO2 %		7.0
CO ppm		7
FLUE °C	396.9	
INLET °C	9.7	
NETT °C	387.2	

EFF (C)	78.5
LOSSES	21.5
XAIR %	68.5

Cal. due on 01/08/17

CO/CO2 0.0000

PRS mbar 0.00

YUKA BATTERY
Customer

Appliance
Pallet Caster No 1
Ref.

ity of the gas operative please contact Gas Safe Register on Tel: 0800 408 5500

A LIMITED

SUITE

HOTEL

R

OO

Registration No:

192725

Operative licence No:

3836888

Date:

21/12/16

Print Name:

C JENKINS

Position held:

Client details if different:

Name:

Address:

27 (UK)

NA EST

No: 01495 354000

Postcode:

Tel No:

No. 1	No. 2 A38	No. 3 A39
FACTORY ONE	FACTORY TWO	FACTORY TWO
LING OVEN No 5	PALETT CASTER No 1	PALETT CASTER No 2
M THERM	NU - WAY	FBR
N/A	N/A	N/A
N/A	FMP 10	N/A
CONVENTIONAL	CONVENTIONAL	CONVENTIONAL

No. 2	No. 3
Low	High
N/A	N/A
4.9	5.2
N/A	

SEE ATTACHED
COMBUSTION
ANALYSIS

Flue gas temperature net (°C)	
Flue draught pressure (mbar)	
Oxygen (O ₂) %	
Carbon Monoxide (CO) ppm	
Carbon Dioxide (CO ₂) %	
NO _x %	
Excess air %	
CO/CO ₂ - Ratio	
Gross efficiency %	
CO flue dilution ppm	

Additional checks (Yes/No/NA)	No. 1	No. 2	No. 3
Flue flow test satisfactory?	✓	✓	✓
Spillage test satisfactory?	✓	✓	✓
Ventilation satisfactory (see also Ventilation type)?	✓	✓	✓
Air/gas pressure switch operating correctly?	✓	✓	✓
Flame proving/safety devices operating correctly?	✓	✓	✓
Burner lock-out time (seconds)	✓	1 sec	✓
Temperature and limit thermostats operating correctly?	✓	✓	✓
Appliance serviced?	✓	✓	✓

Safety Information (Yes/No)	If Warning/Advice Notice Issued, Insert Serial No*
Has a Warning/Advice Notice been raised?	N/A
Have warning labels been attached?	
Has responsible person been advised?	

General safety checks (Yes/No/NA)

Gas booster(s)/compressor(s) operating correctly?	N/A
Gas installation tightness test carried out (if Yes, see separate form)?	N/A
Gas installation pipework adequately supported?	YES
Gas installation pipework sleeved/labelled/painted as necessary?	YES
Chimney system installed in accordance with appropriate standards?	YES
Chimney outlet termination(s) satisfactory?	YES
Fan-flue interlock operating correctly?	NA

Ventilation type - Natural (go to item 1.) Mechanical (go to item 2.)	
1. Room/boiler room/enclosure low-level free area (cm ²)	1
high-level free area (cm ²)	1
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)	N/A
2. Mechanical ventilation flow rate inlet (m ³ /s)	1
extract (m ³ /s)	1
Mechanical ventilation interlock operating correctly?	
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)	YES

Details of work carried out

QUARTERLY SERVICE.

Details of remedial work required

NONE.

DECLARATION OF GAS SAFETY - I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature

[Signature]

Gas Safe is a registered trade mark of the HSE and is used under licence.

K455 V 1.86B

TREMORFA Ltd.
02920 330000

SERIAL NO. 182813104

DATE 07/12/16
TIME 12:15:17

COMBUSTION

FUEL	NAT	GAS
O2 %		6.3
CO2 %		8.3
CO ppm		11
FLUE °C	334.9	
INLET °C	13.9	
NETT °C	321.0	
EFF (C)	84.8	
LOSSES	15.2	
XAIR %	43.1	

Cal. due on 01/08/17		

CO/CO2	0.0001	

PRS mbar	0.00	

YUASA BATTERY
Customer

Appliance

Ref.

.....

K455 V 1.86B

TREMORFA Ltd.
02920 330000

SERIAL NO. 182813104

DATE 07/12/16
TIME 13:26:23

COMBUSTION

FUEL	NAT	GAS
O2 %		8.5
CO2 %		7.0
CO ppm		0
FLUE °C	396.0	
INLET °C	13.2	
NETT °C	382.8	
EFF (C)	78.8	
LOSSES	21.2	
XAIR %	68.5	

Cal. due on 01/08/17		

CO/CO2	0.0000	

PRS mbar	0.00	

YUASA BATTERY
Customer

Appliance

Ref.

.....

K455 V 1.86B

TREMORFA Ltd.
02920 330000

SERIAL NO. 182813104

DATE 07/12/16
TIME 13:14:15

COMBUSTION

FUEL	NAT	GAS
O2 %		8.5
CO2 %		7.0
CO ppm		7
FLUE °C	396.9	
INLET °C	9.7	
NETT °C	387.2	
EFF (C)	78.5	
LOSSES	21.5	
XAIR %	68.5	

Cal. due on 01/08/17		

CO/CO2	0.0000	

PRS mbar	0.00	

YUASA BATTERY
Customer

Appliance

Ref.

.....

PLANT COMMISSIONING/SERVICING RECORD (NON-DOMESTIC)



validity of the gas operative please contact Gas Safe Register on Tel: 0800 408 5500

K455 V 1.868

TREMORFA LTD.
02920 330000

SERIAL NO. 182813104

DATE 14/08/16
TIME 11:19:16

A 39

COMBUSTION

FUEL NAT GAS

O2 % 8.1
CO2 % 7.3
CO ppm 31
FLUE °C 388.4
INLET °C 19.8
NETT °C 388.8

EFF (C) 80.2
LOSSES 19.8
XAIR % 63.2

Cal. due on 01/08/17

CO/CO2 0.0004

PRS mbar -0.00

TREMORFA LIMITED

CE SUITE

WOTEL

KR

0000

Registration No: 192725

Operative licence No: 3836886

Date: 14/08/16

Print Name: C JENKINS

Position held: CONTRACTS MANAGER

Client details if different:

Name:

Address:

BATTERY

ESTATE

Tel No: 01495 354000

Postcode:

Tel No:

No. 1 A39

FACTORY TWO

PELLET CASTER

FBR

N/A

N/A

CONVENTIONAL

No. 2

No. 3

YUNGA BATTERY

Customer PELLET CASTER No 2

Appliance

5.2 mbar

Ref.

o.1 No.2 No.3
High Low High Low High

N/A

SEE ATTACHED
COMBUSTION
ANALYSIS

Flue gas temperature (°C)
Flue gas temperature net (°C)
Flue draught pressure (mbar)
Oxygen (O2) %
Carbon Monoxide (CO) ppm
Carbon Dioxide (CO2) %
NOx %
Excess air %
CO/CO2 - Ratio
Gross efficiency %
CO flue dilution ppm

Additional checks (Yes/No/NA)

No.1 No.2 No.3
Flue flow test satisfactory? ✓
Spillage test satisfactory? ✓
Ventilation satisfactory (see also Ventilation type)? ✓
Air/gas pressure switch operating correctly? ✓
Flame proving/safety devices operating correctly? ✓
Burner lock-out time (seconds) 215
Temperature and limit thermostats operating correctly? ✓
Appliance serviced? ✓

Safety Information (Yes/No)

If Warning/Advice Notice issued, insert Serial No*
Has a Warning/Advice Notice been raised? No
Have warning labels been attached?
Has responsible person been advised?

General safety checks (Yes/No/NA)

Gas booster(s)/compressor(s) operating correctly? N/A
Gas installation tightness test carried out (if Yes, see separate form)? N/A
Gas installation pipework adequately supported? YES
Gas installation pipework sleeved/labelled/painted as necessary? YES
Chimney system installed in accordance with appropriate standards? YES
Chimney outlet termination(s) satisfactory? YES
Fan-flue interlock operating correctly? N/A

Ventilation type - Natural (go to item 1.) Mechanical (go to item 2.)

1. Room/boiler room/enclosure low-level free area (cm²) N/A
high-level free area (cm²) N/A
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required) N/A
2. Mechanical ventilation flow rate inlet (m³/s) N/A
extract (m³/s) N/A
Mechanical ventilation interlock operating correctly? N/A
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required) YES

Details of work carried out

QUARTERLY SERVICE AIR
PRESSURE SWITCH CHANGED

Details of remedial work required

DUNGS GW10 PRESSURE SWITCH
FROM SITE STOCK

DECLARATION OF GAS SAFETY - I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature

Key: Top Copy - Responsible person. Second Copy - Gas Operative

* Refer to separate Warning/Advice Notice

To re-order quote Ref. CP15

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Installer Ref No: _____

PLANT COMMISSIONING/SERVICING RECORD (NON-DOMESTIC)



To confirm the validity of the gas operative please contact Gas Safe Register on Tel: 0800 408 5500

Registered Business: TRENDRA LIMITED

Address: THE TERRACE SUITE
ST. MELLONS HOTEL

Postcode: CF3 2XR

Tel No: 02920 330000

Registration No: 192725

Operative licence No: 3836588

Date: 31/07/16

Print Name: C JENKINS

Position held: CONTRACTS MANAGER

Job address:

Name: YUASA BATTERY

Address: RASSAU INDUSTRIAL EST.

ERBVA VALE

Postcode: NP 23 5SD Tel No: 01495 354000

Received by (signature): _____

Client details if different:

Name: _____

Address: _____

Postcode: _____

Tel No: _____

Appliance details	No. 1 <u>A46</u>	No. 2 <u>A48</u>	No. 3 <u>A50</u>
Location:	<u>FACTORY ONE</u>	<u>FACTORY ONE</u>	<u>FACTORY ONE</u>
Type:	<u>DRYING OVEN N°1</u>	<u>DRYING OVEN N°2</u>	<u>DRYING OVEN N°3</u>
Model:	<u>TC WILLIAMS</u>	<u>TC WILLIAMS</u>	<u>TC WILLIAMS</u>
Serial No:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Burner manufacturer (if different):	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Flue type:	<u>CONVENTIONAL</u>	<u>CONVENTIONAL</u>	<u>CONVENTIONAL</u>

Combustion checks

Appliance No.	No.1		No.2		No.3	
Firing mode	Low	High	Low	High	Low	High
Heat input rating (kW)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Gas burner pressure (mbar)	<u>4.8</u>	<u>5.0</u>	<u>4.6</u>			
Gas rate (m³/hr)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Air/gas ratio control setting	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Ambient (room) temperature (°C)						
Flue gas temperature (°C)		<u>SEE</u>				
Flue gas temperature net (°C)		<u>ATTACHED</u>				
Flue draught pressure (mbar)		<u>COMBUSTION</u>				
Oxygen (O₂) %		<u>ANALYSIS</u>				
Carbon Monoxide (CO) ppm						
Carbon Dioxide (CO₂) %						
NO _x %						
Excess air %						
CO/CO₂ - Ratio						
Gross efficiency %						
CO flue dilution ppm						

Additional checks (Yes/No/NA)

	No.1	No.2	No.3
Flue flow test satisfactory?	<u>✓</u>	<u>✓</u>	<u>✓</u>
Spillage test satisfactory?	<u>✓</u>	<u>✓</u>	<u>✓</u>
Ventilation satisfactory (see also Ventilation type)?	<u>✓</u>	<u>✓</u>	<u>✓</u>
Air/gas pressure switch operating correctly?	<u>✓</u>	<u>✓</u>	<u>✓</u>
Flame proving/safety devices operating correctly?	<u>✓</u>	<u>✓</u>	<u>✓</u>
Burner lock-out time (seconds)	<u><15</u>	<u><15</u>	<u><15</u>
Temperature and limit thermostats operating correctly?	<u>✓</u>	<u>✓</u>	<u>✓</u>
Appliance serviced?	<u>✓</u>	<u>✓</u>	<u>✓</u>

Safety Information (Yes/No)

Has a Warning/Advice Notice been raised?	<u>N/A</u>
Have warning labels been attached?	
Has responsible person been advised?	

If Warning/Advice Notice issued, insert Serial No*

General safety checks (Yes/No/NA)

Gas booster(s)/compressor(s) operating correctly?	<u>N/A</u>
Gas installation tightness test carried out (if Yes, see separate form)?	<u>N/A</u>
Gas installation pipework adequately supported?	<u>YES</u>
Gas installation pipework sleeved/labelled/painted as necessary?	<u>YES</u>
Chimney system installed in accordance with appropriate standards?	<u>YES</u>
Chimney outlet termination(s) satisfactory?	<u>YES</u>
Fan-flue interlock operating correctly?	<u>N/A</u>

Ventilation type - Natural (go to item 1.) Mechanical (go to item 2.)

1. Room/boiler room/enclosure	low-level free area (cm²)	<u>N/A</u>
	high-level free area (cm²)	<u>N/A</u>
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		<u>N/A</u>
2. Mechanical ventilation flow rate	inlet (m³/s)	<u>N/A</u>
	extract (m³/s)	<u>N/A</u>
Mechanical ventilation interlock operating correctly?		<u>N/A</u>
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		<u>YES</u>

Details of work carried out

<u>6 MONTHLY SERVICE CARRIED OUT</u>
<u>IGNITION ELECTRODES CHANGED</u>

Details of remedial work required

<u>NONE</u>

DECLARATION OF GAS SAFETY - I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature _____

K455 V 1.36B

YOUR COMPANY NAME &
PHONE NUMBER HERE

SERIAL NO. 181812262

DATE 31/07/16
TIME 09:45:09

A50

COMBUSTION

FUEL	NAT	GAS
O2 %	4.0	
CO2 %	9.6	
CO ppm	37	
FLUE	276.5	
INLET	35.6	
NETT	240.9	

EFF (C)	90.2
LOSSES	9.8
XAIR %	23.6

Cal. due on 25/07/17

CO/CO2 0.0003

PRS mbar 0.01

TUNSA BATTERY

Customer

DYING OVEN N°3

Appliance

HEAD PRESSURE

Ref. 4.6 mbar

K455 V 1.36B

YOUR COMPANY NAME &
PHONE NUMBER HERE

SERIAL NO. 181812262

DATE 31/07/16
TIME 09:00:25

A48

COMBUSTION

FUEL	NAT	GAS
O2 %	5.8	
CO2 %	6.8	
CO ppm	23	
FLUE	288.7	
INLET	6.8	
NETT	281.9	

EFF (C)	87.2
LOSSES	12.8
XAIR %	38.4

Cal. due on 25/07/17

CO/CO2 0.0002

PRS mbar -0.00

TUNSA BATTERY

Customer

DYING OVEN N°2

Appliance

HEAD PRESSURE

Ref. 5.0 mbar

K455 V 1.36B

YOUR COMPANY NAME &
PHONE NUMBER HERE

SERIAL NO. 181812262

DATE 31/07/16
TIME 09:16:27

A46

COMBUSTION

FUEL	NAT	GAS
O2 %	5.8	
CO2 %	6.8	
CO ppm	23	
FLUE	183.0	
INLET	22.0	
NETT	159.2	

EFF (C)	93.0
LOSSES	7.0
XAIR %	33.9

Cal. due on 25/07/17

CO/CO2 0.0002

PRS mbar 0.00

TUNSA BATTERY

Customer

DYING OVEN N°1

Appliance

HEAD PRESSURE

Ref. 4.8 mbar

Installer Ref No:

81413

PLANT COMMISSIONING/SERVICING RECORD (NON-DOMESTIC)



To confirm the validity of the gas operative please contact Gas Safe Register on Tel: 0800 408 5500

Registered Business: TREMORA LIMITED

Address: THE TERRACE SUITE

ST. MELLONS HOTEL

Postcode: CF3 2XR

Tel No: 02920 330000

Registration No: 192725

Operative licence No: 3836888

Date: 31/07/16

Print Name: C JENKINS

Position held: CONTRACTS MANAGER

Job address:

Name: YUASA BATTERY

Address: RASGAD INDUSTRIAL EST

EBBVA VALE

Postcode: NP23 5SD Tel No: 01495 354000

Received by (signature):

Client details if different:

Name:

Address:

Postcode: Tel No:

Appliance details

	No. 1	No. 2	No. 3
Location:	FALFORTH ONE	FALFORTH ONE	FALFORTH ONE
Type:	COMBI TERM	DRYING OVEN N9	DRYING OVEN N10
Model:	DRYING OVEN N5	TL WILLIAMS	TL WILLIAMS
Serial No:	N/A	N/A	N/A
Burner manufacturer (if different):	N/A	N/A	N/A
Flue type:	CONVENTIONAL	CONVENTIONAL	CONVENTIONAL

Combustion checks

Appliance No.	No.1		No.2		No.3	
Firing mode	Low	High	Low	High	Low	High
Heat input rating (kW)	N/A	N/A	N/A	N/A	N/A	N/A
Gas burner pressure (mbar)	5.1		4.8		6.0	
Gas rate (m³/hr)	N/A	N/A	N/A	N/A	N/A	N/A
Air/gas ratio control setting	N/A	N/A	N/A	N/A	N/A	N/A
Ambient (room) temperature (°C)						
Flue gas temperature (°C)			SEE			
Flue gas temperature net (°C)			ATTACHED			
Flue draught pressure (mbar)			COMBUSTION			
Oxygen (O₂) %			ANALYSIS			
Carbon Monoxide (CO) ppm						
Carbon Dioxide (CO₂) %						
NO _x %						
Excess air %						
CO/CO₂ - Ratio						
Gross efficiency %						
CO flue dilution ppm						

General safety checks (Yes/No/NA)

Gas booster(s)/compressor(s) operating correctly?	N/A
Gas installation tightness test carried out (if Yes, see separate form)?	N/A
Gas installation pipework adequately supported?	YES
Gas installation pipework sleeved/labelled/painted as necessary?	YES
Chimney system installed in accordance with appropriate standards?	YES
Chimney outlet termination(s) satisfactory?	YES
Fan-flue interlock operating correctly?	N/A

Ventilation type - Natural (go to item 1.) Mechanical (go to item 2.)

1. Room/boiler room/enclosure	low-level free area (cm²)	N/A
	high-level free area (cm²)	N/A
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		N/A
2. Mechanical ventilation flow rate	inlet (m³/s)	N/A
	extract (m³/s)	N/A
Mechanical ventilation interlock operating correctly?		N/A
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		YES

Details of work carried out

6 MONTHLY SERVICE CARRIED
OUT IGNITION ELECTRODES
CHANGED

Details of remedial work required

NONE

Additional checks (Yes/No/NA)

	No.1	No.2	No.3
Flue flow test satisfactory?	✓	✓	✓
Spillage test satisfactory?	✓	✓	✓
Ventilation satisfactory (see also Ventilation type)?	✓	✓	✓
Air/gas pressure switch operating correctly?	✓	✓	✓
Flame proving/safety devices operating correctly?	✓	✓	✓
Burner lock-out time (seconds)	<15	<15	<15
Temperature and limit thermostats operating correctly?	✓	✓	✓
Appliance serviced?	✓	✓	✓

Safety Information (Yes/No)

Has a Warning/Advice Notice been raised?	N/A
Have warning labels been attached?	
Has responsible person been advised?	

If Warning/Advice Notice issued, insert Serial No*

DECLARATION OF GAS SAFETY - I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature

[Signature]

K455 V 1.86B

YOUR COMPANY NAME &
PHONE NUMBER HERE

SERIAL NO. 181812262

DATE 31/07/16
TIME 10:51:39

AS2

COMBUSTION

FUEL	NAT	GAS
O ₂ %	5.7	
CO ₂ %	8.6	
CO ppm	17	
FLUE °C	226.3	
INLET °C	23.4	
NETT °C	202.9	
EFF (C)	90.8	
LOSSES	9.2	
XAIR %	37.5	
Cal. due on 25/07/17		
CO/CO ₂	0.0001	
PRS mbar	0.00	

NASA BATTERY
Customer
DATING OVER NO.9
Appliance
HEAD RESERVE
Ref. 4.3 mbar

PHONE NUMBER HERE

SERIAL NO. 181812262

DATE 31/07/16
TIME 11:12:07

AS4

COMBUSTION

FUEL	NAT	GAS
O ₂ %	8.2	
CO ₂ %	7.2	
CO ppm	11	
FLUE °C	357.0	
INLET °C	23.7	
NETT °C	333.3	
EFF (C)	81.9	
LOSSES	18.1	
XAIR %	64.5	
Cal. due on 25/07/17		
CO/CO ₂	0.0001	
PRS mbar	-0.00	

NASA BATTERY
Customer
DATING OVER NO.10
Appliance
HEAD RESERVE
Ref. 6.0 mbar

Installer Ref No: _____

PLANT COMMISSIONING/SERVICING RECORD (NON-DOMESTIC)

To confirm the validity of the gas operative please contact Gas Safe Register on Tel: _____

Registered Business: Tremorick Ltd
Address: St Mellons Hotel
Terrace Suite Cardiff
Postcode: CF3 2AW
Tel No: _____

Registration No: _____
Operative licence No: _____
Date: _____
Print Name: _____
Position held: _____

Job address:
Name: Ynion Battery
Address: Rossan Ind Estate
Ebbw Vale
Postcode: _____ Tel No: _____
Received by (signature): _____

Client details if different:
Name: _____
Address: _____
Postcode: _____

Appliance details	No. 1 <u>57</u>	No. 2
Location:	<u>Factory 3 Warehouse</u>	<u>Factory 3 Warehouse</u>
Type:	<u>Water Air Unit</u>	<u>Water Heater</u>
Model:	<u>Combi</u>	<u>Andrews</u>
Serial No:	<u>306</u>	<u>62-341</u>
Burner manufacturer (if different):		
Flue type:	<u>Balance</u>	<u>Balance</u>

Combustion checks

Appliance No.	No.1		No.2		No.3	
Firing mode	Low	High	Low	High	Low	High
Heat input rating (kW)		<u>88</u>		<u>80</u>		<u>32</u>
Gas burner pressure (mbar)		<u>8.9</u>		<u>6.8</u>		<u>9.2</u>
Gas rate (m³/hr)		<u>—</u>		<u>—</u>		<u>—</u>
Air/gas ratio control setting		<u>—</u>		<u>—</u>		<u>—</u>
Ambient (room) temperature (°C)		<u>19.2</u>		<u>18.1</u>		<u>18.1</u>
Flue gas temperature (°C)		<u>340.7</u>		<u>265.7</u>		<u>275.6</u>
Flue gas temperature net (°C)		<u>331.5</u>		<u>247.6</u>		<u>257.6</u>
Flue draught pressure (mbar)		<u>—</u>		<u>—</u>		<u>—</u>
Oxygen (O₂) %		<u>3.1</u>		<u>6.0</u>		<u>9.4</u>
Carbon Monoxide (CO) ppm		<u>32</u>		<u>43</u>		<u>70</u>
Carbon Dioxide (CO₂) %		<u>7.2</u>		<u>8.5</u>		<u>6.5</u>
NO _x %		<u>—</u>		<u>—</u>		<u>—</u>
Excess air %		<u>63.2</u>		<u>40.2</u>		<u>81.7</u>
CO/CO₂ - Ratio		<u>0.204</u>		<u>0.205</u>		<u>0.201</u>
Gross efficiency %		<u>82.1</u>		<u>88.6</u>		<u>84.6</u>
CO flue dilution ppm		<u>—</u>		<u>—</u>		<u>—</u>

Additional checks (Yes/No/NA)

	No.1	No.2	No.3
Flue flow test satisfactory?	<u>Y</u>		
Spillage test satisfactory?	<u>WIA</u>		
Ventilation satisfactory (see also Ventilation type)?	<u>Y</u>		
Air/gas pressure switch operating correctly?	<u>WIA</u>		
Flame proving/safety devices operating correctly?	<u>Y</u>		
Burner lock-out time (seconds)	<u>10</u>		
Temperature and limit thermostats operating correctly?	<u>Y</u>		
Appliance serviced?	<u>Y</u>		

Safety Information (Yes/No)

Has a Warning/Advice Notice been raised?	<u>NO</u>
Have warning labels been attached?	<u>—</u>
Has responsible person been advised?	<u>—</u>

If Warning/Advice Notice issued, insert Serial No*

General safety checks (Yes/No/NA)

Gas booster(s)/compressor(s) operating correctly?	
Gas installation tightness test carried out?	
Gas installation pipework adequate?	
Gas installation pipework sleeved/labelled, painted as required?	
Chimney system installed in accordance with appropriate standards?	<u>Y</u>
Chimney outlet termination(s) satisfactory?	<u>Y</u>
Fan-flue interlock operating correctly?	<u>WIA</u>

Ventilation type – Natural (go to item 1.) Mechanical (go to item 2.)

1. Room/boiler room/enclosure	low-level free area (cm²)	
	high-level free area (cm²)	
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		<u>Yes</u>
2. Mechanical ventilation flow rate	inlet (m³/s)	
	extract (m³/s)	
Mechanical ventilation interlock operating correctly?		
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		

Details of work carried out

<u>Annual Service</u>

Details of remedial work required

<u>Expansion vessel for water heater faulty.</u>
<u>Water boiler in old state but working ok.</u>

DECLARATION OF GAS SAFETY – I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature _____

K455 V 1.868

YOUR COMPANY NAME & PHONE NUMBER HERE

SERIAL NO. 181812262

DATE 03/11/16
TIME 11:43:20

AS7

COMBUSTION

FUEL NAT GAS

O₂ % 0.1
CO₂ % 1.9
CO ppm 1.9
FLUE INLET °C 66.4
NETT °C 61.6

EFF (C) 82.1
LOSSES 17.9
XAIR % 33.2

Cal. due on 25/07/17

CO/CO₂ 0.2004

PRG mbar -0.00

Customer Ynion

Appliance Factory 3

Ref. Combi

TP1709R

A62

Date: 09/01/17
Time: 11:02

Fuel: Natural Gas

Report:

CO(ppm): 23
O2(%): 18.9
CO2(%): 0.8
Ratio(CO/CO2): 0.0006
CO Air Free(ppm): 97
Excess Air(%): 317
HEAT EFF (%): 35.9
TEMP CH1(F): 105
TEMP CH2(F): Open

Smoke: 1 2 3 4 5

Customer:

Address:

Reading Accepted by:

11:06, 09/01/17

PHOENIX

AIRCON LIMITED

HEATING, AIR CONDITIONING AND REFRIGERATION ENGINEERS

Wes
un ind
est.

ARR. TIME: 1130
DEP. TIME: 130
NORMAL HRS: 5
TRAVEL HRS: 3
ABNORMAL HRS:
TRAVEL HRS:
TOTAL HRS: 5.6
MILEAGE: 68

SAT: SUN:
ENGINEER: *BT*
DATE: 1 Jan 17
VEHICLE REG: *DM1244*
Work Complete? YES NO
Separate Report? YES NO
CHECK DATE:

Model: *NVS60/FH/Med A62*
Serial No: *N6011H071*
Location: *Caring even.*

22716

travelling to supplier and collect gas
overhead stat.
travelling to site
Perona Conors and part old part out
at new part Run unit no gas find control
was bad get new from unit in garage
at to Lister for a test
new box needed.

MATERIALS USED

Order Number	Supplier	Details	£	p
		<i>1 overhead stat.</i>		

MATERIAL TOTAL

MATERIALS REQUIRED:

ENGINEER'S
SIGNATURE: *BT*

SUMMARY OF CHARGES (For Office use only)

	£	p
Normal Hours @		
Overtime Hours @		
Mates Hours @		
Mileage @		
LABOUR TOTAL		
INVOICE TOTAL		

CLIENT'S
SIGNATURE: *R/W*

K455 V 1.86B

YOUR COMPANY NAME &
PHONE NUMBER HERE

SERIAL NO. 181812262

DATE 01/11/16
TIME 13:36:41

COMBUSTION

FUEL NAT GAS

O₂ % 7.6
CO₂ % 7.6
CO ppm 19
FLUE °C 360.5
INLET °C 20.2
NETT °C 340.3

EFF (C) 82.4
LOSSES 17.6
XAIR % 57.1

Cal. due on 25/07/17

CO/CO₂ 0.0002

PRS mbar 0.00

Customer

Appliance

Ref.

	No.2	No.3
High	Low	High
Gas rate (m ³ /hr)	12.0	14.9
Air/gas ratio control setting	—	—
Ambient (room) temperature (°C)	43.8	43.8
Flue gas temperature (°C)	129.1	146.0
Flue gas temperature net (°C)	85.3	112.2
Flue draught pressure (mbar)	—	—
Oxygen (O ₂) %	9.5	11.3
Carbon Monoxide (CO) ppm	12	15
Carbon Dioxide (CO ₂) %	6.5	5.5
NO _x %	—	—
Excess air %	83.3	117.7
CO/CO ₂ - Ratio	0.0001	0.0002
Gross efficiency %	96.9	92.0
CO flue dilution ppm	—	—

Additional checks (Yes/No/NA)	No.1	No.2	No.3
Flue flow test satisfactory?	Y	Y	Y
Spillage test satisfactory?	Y	Y	Y
Ventilation satisfactory (see also Ventilation type)?	Y	Y	Y
Air/gas pressure switch operating correctly?	N/A	N/A	N/A
Flame proving/safety devices operating correctly?	Y	Y	Y
Burner lock-out time (seconds)	30	30	10
Temperature and limit thermostats operating correctly?	Y	Y	Y
Appliance serviced?	Y	Y	Y

Safety Information (Yes/No)

Has a Warning/Advice Notice been raised? NO

Have warning labels been attached? /

Has responsible person been advised? /

If Warning/Advice Notice issued, insert Serial No*

PLANT COMMISSIONING/SERVICING
RECORD (NON-DOMESTIC)

Validity of the gas operative please contact Gas Safe Register on Tel: 0800 408 5500

Remoza Ltd
Suite
Motel Cardiff
2AW

Registration No: 192725

Operative licence No: 3366284

Date: 3-11-16

Print Name: J. HEALEY

Position held: ENGINEER

Client details if different:

Name: _____

Address: _____

Tel No: _____

Postcode: _____ Tel No: _____

No. 1	No. 2	No. 3
day 2 reception Plant Room Water Heater Andrews 65/173 Balanced	→ system Boiler Hoval 660 EX Balanced	63 Factory 2 Warehouse Warm Air Unit Combat Model 30 G Balanced

General safety checks (Yes/No/NA)

Gas booster(s)/compressor(s) operating correctly?	Y
Gas installation tightness test carried out (if Yes, see separate form)?	Y
Gas installation pipework adequately supported?	Y
Gas installation pipework sleeved/labelled/painted as necessary?	Y
Chimney system installed in accordance with appropriate standards?	Y
Chimney outlet termination(s) satisfactory?	Y
Fan-flue interlock operating correctly?	N/A

Ventilation type - Natural (go to item 1.) Mechanical (go to item 2.)

1. Room/boiler room/enclosure	low-level free area (cm ²)	
	high-level free area (cm ²)	
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		Y
2. Mechanical ventilation flow rate	inlet (m ³ /s)	
	extract (m ³ /s)	
Mechanical ventilation interlock operating correctly?		
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		

Details of work carried out

Annual Service

Details of remedial work required

Water Heater cleanout opening showing signs of leaking so may require new seal if re-occurs.

DECLARATION OF GAS SAFETY - I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature

Lead Extraction and Current Status as at January 2017

Dept	Process Served	Stack No.	Status	Number of Emission Points	Substance Extracted	Permit ELV
Factory 2	Oxide Mill No. 4	A1	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Oxide Mill No. 5	A2	In use	1	Lead	0.5 mg m ⁻³
Factory 1	Casting Off-Cut Hopper	A3	Not in use	1	Lead	0.5 mg m ⁻³
Factory 1	Casting Ladles 1 - 16	A4	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Lead Recycling	A5	Not in use	1	Lead	0.5 mg m ⁻³
Factory 1	Pasting Machine Mixers 2 & 3	A6	In use	1	Lead	1.0 mg m ⁻³
Factory 1	Expanded Grid Line	A7	In use	1	Lead	2.0 mg m ⁻³
Factory 1	Auto Charging	A8	Not in use	1	Acid Mist	No ELV
Factory 1	Lead Dross and Recycling	A9	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Assembly Line 9A	A11	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Pellet Caster / Small Parts Caster	A12	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Assembly	A13	Not in use	1	Lead	2.0 mg m ⁻³
Factory 2	Assembly Lines 6 - 8 and Vacuum	A14	Not in use	1	Lead	2.0 mg m ⁻³
Factory 2	Assembly	A15	Not in use	1	Lead	0.5 mg m ⁻³
Factory 4	Assembly EN Line Vacuum Stack 1	A16	Not in use	1	Lead	0.5 mg m ⁻³
Factory 4	Assembly EN Line Vacuum Stack 2	A17	Not in use	1	Lead	0.5 mg m ⁻³
Factory 1	Cutting Machines 1 – 7 Vacuum	A18	In use	1	Lead	1.0 mg m ⁻³
Factory 1	Dross Bins 1 – 8	A19	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Oxide Mill No. 6	A20	In use	1	Lead	0.5 mg m ⁻³
Factory 4	Ex New NNP Vacuum	A22	Not in use	1	Lead	2.0 mg m ⁻³
Factory 2	Oxide Mill No. 7	A23	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Assembly Line 9 Extraction	A24	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Assembly Line 9 Vacuum	A25	Not in use	1	Lead	0.5 mg m ⁻³
Factory 1	Casting Pots 1 - 8	A26	In use	1	Lead	0.5 mg m ⁻³

Other Process Extraction and Current Status as at January 2017

Dept	Process Served	Stack No.	Status	Filter Type	Number of Emission Points		LEV or Process	Possible Emissions (process operating temperature)
Factory 1	Grid Casting Aging Oven No.1	A10	In use	N/A	1	200 Ø	Process	Combustion gases (Oven temp 100°C)
Factory 1	Grid Casting Aging Oven No.2	A21	In use	N/A	1	200 Ø	Process	Combustion gases (Oven temp 100°C)
Factory 2	Small Parts Casting Furnace Nos.1, 2 and 3	A 27	In use	HEPA	1	450 Ø	Process	Lead fume if temp above 500°C (470°C)
Factory 2	Cast on strap Line 1	A28	Removed	Mesh filter & electrostatic	0	300 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 2	A29	Removed	Mesh filter & electrostatic	0	300 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 3	A30	Removed	Mesh filter & electrostatic	0	300 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 4	A31	Removed	Mesh filter & electrostatic	0	330 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 5	A32	Removed	Mesh filter & electrostatic	0	330 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 6	A33	Removed	Mesh filter & electrostatic	0	330 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 7	A34	Removed	Mesh filter & electrostatic	0	330 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 1	Hydro-setting oven Lane 1	A35	In use	N/A	1	200 Ø	Process	Combustion Gases (Oven temp 50°C)
Factory 1	Hydro-setting oven Lane 2	A36	In use	N/A	1	200 Ø	Process	Combustion Gases (Oven temp 50°C)
Factory 1	Pasting Machine No.2 Take-off (Steam)	A37	In use	N/A	1	400 Ø	Process	Steam
Factory 2	Pellet Caster - Gas Burner Stack No.1	A38	In use	N/A	1	300 Ø	Process	Combustion gases
Factory 2	Pellet Caster - Gas Burner Stack No.2	A39	In use	N/A	1	200 Ø	Process	Combustion gases
Factory 2	Oxide Mill No.4 Extraction	A40	In use	N/A	1	450 Ø	Process	Water/moisture
Factory 2	Oxide Mill No.5 Extraction	A41	In use	N/A	1	500 Ø	Process	Water/moisture
Factory 2	Oxide Mill No.6 Extraction	A42	In use	N/A	1	450 Ø	Process	Water/moisture
Factory 2	Oxide Mill No.7 Extraction	A43	In use	N/A	1	500 Ø	Process	Water/moisture
Factory 1	Flash drying oven No 2	A44	In use	N/A	1	600 Ø	Process	Combustion gases
Factory 1	Flash drying oven No 3	A45	In use	N/A	1	600 Ø	Process	Combustion gases
Factory 1	Gas Drying oven No. 1 Burner and Steam	A46 & A47	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 1	Gas Drying oven No.2 Burner and Steam	A48 & A49	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 1	Gas Drying oven No.3 Burner and Steam	A50 & A51	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 1	Gas Drying oven No.9 Burner and Steam	A52 & A53	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 1	Gas Drying oven No.10 Burner and Steam	A54 & A55	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 3	Combat Heater No.1 South West	A56	Not in use	N/A	1			Heating combustion gases
Factory 3	Combat Heater No.2 South East	A57	In use	N/A	1			Heating combustion gases
Factory 3	Combat Heater No.3 North East	A58	Not in use	N/A	1			Heating combustion gases
Factory 2	0.85 MW _{th} Boiler	A59	Not in use	N/A	1			Combustion gases
Factory 2	1.75 MW _{th} Boiler	A60	Not in use	N/A	1			Combustion gases

Other Process Extraction and Current Status as at January 2017

Dept	Process Served	Stack No.	Status	Filter Type	Number of Emission Points	LEV or Process	Possible Emissions (process operating temperature)
Factory 1	Dross Recycling Burner	A61	In use	N/A	1		
Factory 1	Hydro-setting oven Lanes 3 & 4 Steam	A62	In use	N/A	1	200 Ø	Combustion Gases (Oven temp 50°C)
Factory 2	Combat Heater No.5 Warehouse No.2 North East	A63	In use	N/A	1		Heating combustion gases
Factory 1	Transferred to F2 as above, currently no heater fitted.	A64	Not in use	N/A	1		Heating combustion gases
Factory 2	Assembly FT and Line 9A Lid Bonding and Terminal Seal	A65	In use	N/A	1	600 Ø	VOC's
Factory 2	Assembly Line 7 Lid Bonding and Terminal Seal	A66	In use	N/A	1	600 Ø	VOC's
Factory 2	Assembly Line 8 Lid Bonding and Terminal Seal	A67	In use	N/A	1	600 Ø	VOC's
Factory 2	Assembly Line 9 Lid Bonding and Terminal Seal	A68	In use	N/A	1	600 Ø	VOC's
Factory 4	Assembly Line 10 Heat Seal (3 work stations, 1 stack)	A69	In use	Mesh Filters X 3	1	300 Ø	VOC's
Factory 4	Assembly Line 10 Terminal Seal	A70	In use	N/A	1	200 Ø	VOC's
Factory 2	Assembly Ex Lines 1, 2 and 3 Lid Bonding and Terminal Seal	A71	Not in use	N/A	1	600 Ø	VOC's
Factory 2	Assembly Charging Ex Lines 1, 2 and 3	A72	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Assembly Charging Lines 7 & 9A	A73	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Charging Line 8 Stacks 1	A74	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Charging Line 8 Stacks 2	A75	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Charging Line 8 Stacks 3	A76	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Charging Line 8 Stacks 4	A77	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 1	Resin Decanting Room	A78	In use	Mesh Grill	1	100 Ø	VOC's
Factory 1 (Ext.)	Resin Mixing Room	A79	In use	Mesh Filters x2	1	300 Ø	VOC's
Factory 1	Laboratory Fume Cabinet	A80	In use	N/A	1	200 Ø	Chemical Vapour
Factory 1	Laboratory Work Bench	A81	In use	Mesh Grill	1	300 Ø	Chemical Vapour
Factory 1	Laboratory AA Machine	A82	In use	N/A	1	100 Ø	Chemical Vapour
Factory 1 (Ext.)	Water Treatment Plant Work Bench	A83	In use	N/A	1	250 Ø	Chemical Vapour
Factory 2	Welding Room	A84	Occasional Use	N/A	1	150 Ø	Occasional Welding fume
Factory 1	Air intake to No.2 pasting mixer	A85	In use	N/A	1	300 Ø	Fresh air intake to paste mixer.
					Total Number of Emission Points	78	

Associated with Burner Efficiencies