

TIMESHEET REPORT

Tele: +44 (0) 3300884720 Fax: +44 (0) 3300884721 info@orlandoaircon.co.uk

CUSTOMER NAME	SITE CONTACT (OPERA	SHEET NUMBER		
OPEN UNIVERSITY MILTON KEYNES	ALAN REID	D -	FACILITIES	12286
SITE NAME & ADDRESS (PLANT OWNER F-GAS)	ENGINEER	DANIEL CONDELLO		CLIENT ASSET NUMBER
OPEN UNIVERSITY, WALTON HALL, MILTON KEYNES. MK7 6AA	MATE	DANIEL HICKEY		01010
REASON FOR VISIT QUOTED REPAIRS	MANUFACTURER	ROBUR	MODEL	GAHP GS LT
JOB NUMBER ORAC.2778_EST366671	SERIAL No.	SEE ATTACHMENT	YEAR INSTALLED	01/01/2010
PLANT LOCATION GROUND FLOOR PLANT ROOM	REFIGERANT TYPE	R717	TOTAL REF. CHARGE	28.0 KG
PLANT REFERENCE ABSORPTION UNDER FLOOR HEATING	REFRIGERANT GWP	0	IND. REF SYS. CHARGE	40 KG H2O
LOADS SERVED WALTON HALL BUILDING	EQUIV. TONNES CO2E	0	FGAS LEAK CHECK FREQ.	NOT REQUIRED
WORK CARRIED OUT:				

CARRIED OUT REPAIRS ON SEALED AMMONIA CIRCUIT ON ROBUR HEAT PUMP N.4

RECOVERED AMMONIA SOLUTION FROM INSIDE SEALED CIRCUIT, CUT OUT FAULTY SPARES, REPLACED WITH NEW, RE-CHARGED WITH EXISTING AMMONIA SOLUTION AND ADDED AN EXTRA

400 G OF AMMONIA AS A TOP UP.

TESTED FOR ANY LEAKS NONE FOUND

ENGINEERS TIME ON SITE & TRAVEL						AVEL			MATERIALS USED		
DAY	DATE	START	FINISH	TRAVEL	TOTAL	COMPLETE Y/N	MILEAGE	No. ENG	QUANTITY	DESCRIPTION	
MON									1	SOLUTION PUMP	
TUES									1	SOLUTION RESTRICTOR	
WED									1	INTERNAL SAFETY GAS BY PASS VALVE	
THUR	16/01/2020	08:00	15:00	2	9	Ν	142	2	1	CONTROL BRAHAMA BOX	
FRI	17/01/2020	08:00	16:00	2	10	Y	142	3			
SAT											
SUN											
	OUGTONED TO OTON	NI FOR FLOTAL	ERA TIME ON								

CUSTOMER TO SIGN FOR ENGINEERS TIME ON SITE

ENGINEER SIGNATURE:

Daniel Condello

CUSTOMERS SIGNATURE:

F-GAS QUALIFICATION:

C&G 2079 PART 1

CUSTOMER NAME:

ALAN REID

SIGNATURE DATE:	17/01/2020	CUSTOMERS JOB TITLE:	FACILITIES				
ADDITIONAL WORKS RECOMMENDED / REQUIRED:							
ISO9001:2008. CUSTOMER SATISFACTION:	1 = UNSATI:	SFIED 2 = BELOW AVERAGE 3 = MET EXPECTATION 4	= ABOVE AVERAGE 5 = EXCELLENT				
CUSTOMER COMMENTS ABOUT PERFORMANCE ON THIS JOB / CONTRACT:							



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PPM REPORT - ROBUR AMMONIA ABSORBER

CUSTOMER NAME				SITE CONTACT (OPERATOR RESPONSIBLE FOR F-GAS COMPLIANCE)				SHEET NUMBER	R
OPEN UNIVERSITY MILTON KEYNES				ALAN	ALAN REID - FACILITIES				12286
SITE NAME & ADDRESS				ENGINEER	DANIEL CONDEL	LO		CLIENT ASSET	NUMBER
OPEN UNIVERSITY, V	WALTON HALL, MILTON KEYI	NES. MK7 6AA		F-GAS QUALIFICATION	C&G 2079 PART	1			01010
REASON FOR VISIT	QUOTED REPAIRS			COMPANY GAS SAFE.	0		ENGINEER GAS SAFE NO.	3814612	
JOB NUMBER	ORAC.2778_EST366671			MANUFACTURER	ROBUR		MODEL	GAHP GS LT	
PLANT LOCATION	GROUND FLOOR PLANT ROO	DM		SERIAL No.	SEE ATTACHMEN	IT	YEAR INSTALLED	01/01/2010	
PLANT REFERENCE	ABSORPTION UNDER FLOOP	R HEATING		REFRIGERANT	R717		QUANTITY (KG)	28.0 KG	
CLG / HTG LOAD SERVED	WALTON HALL BUILDING			REFRIGERANT GWP	0		EQUIV. TONNES CO2E	0	
	BOX CODES Y YES	S N NO G	GOOD	F FAIR P	POOR B	BAD	NOT APPLICABLE		
COMBUSTION	CHAMBER Min	ROBUR UNIT SAFE	TIES Min/	Мај	SOLUTIO	ON MAKE U	IP		
Check	k Seals / Silicon Gaskets	3.017	PCB Firmware r	elease	10.0 KG	Refrigerant (H.	20)		
Check	k Fixings	115.0 Deg C	Gen H.T Cut-Ou	ıt	7.0 KG	Ammonia R71	7		
Check	k Burner	2.2 Deg C	LTL Cut-Out		360.0 CC	C Inhibitor (Chromate)			
Check	k Flame Sensor	115.0 Deg C	Generator Max	Cut Out Temp					
Check	Check Ignitor 250.0 Deg C Flue Max Cut ou			ut Temp	CHILLED	WATER M			
Check	k Leads	G	Air Pressure Sw	itch Operation	N/A	N/A Glycol %			
		45.0 Deg C	High Ambient C	ut-out Temp	-	Inhibitor %			
COMBUSTION	COMBUSTION CHAMBER Maj -25.0 Deg C Low Ambient Cu		ut-out Temp	N/A	Defoam Agent				
Check	k Chamber	115.0 Deg C	Generator Tem	o High Limit	Ν	Water Leaks Pl	resent		
Repla	ce Burner Silicon Gasket	G	Chilled Water Fl	low Switch Oper.	Ν	Check CW Stra	ainer		
Check	k Condense Discharge	G	Oil Pump Rotati	ion Sensor Check.					

Gas Valve Oper.
Clean Combustion Chamber
Clean Burner
Clean Electrodes
Clean Flame Sensor

GAS FUEL CHECKS Min

	Gas Pressure from Meter
	Gas Pressure to the Burner
	Gas Pressure After Gas Valve
	CO2 % Value
G	Check Flue Cleanliness

GAS FUEL CHECKS Maj

Gas Pressure from Meter
Gas Pressure to the Burner
Gas Pressure After Gas Valve
02
CO2 % Value
CO PPM
Flue Temp
Inlet
Net
Eff
Losses
Xair %
CO/CO2
Drop Test

GENERAL COND. Min/Maj

Panelling

DDC CONTROLS Min/Maj

Check Electrical Harnesses
Check Main Controller
Schedule Timer Updated
DDC Firmware Release
Check xRAM Board
Service Checker Downloaded
Record DDC Supply Voltage
Correct CanBus Cable Used
BRAM Battery Operation
Fuse F1 - F4 Condition

DDC CONTROLS CAL. CHECKS Min/Maj

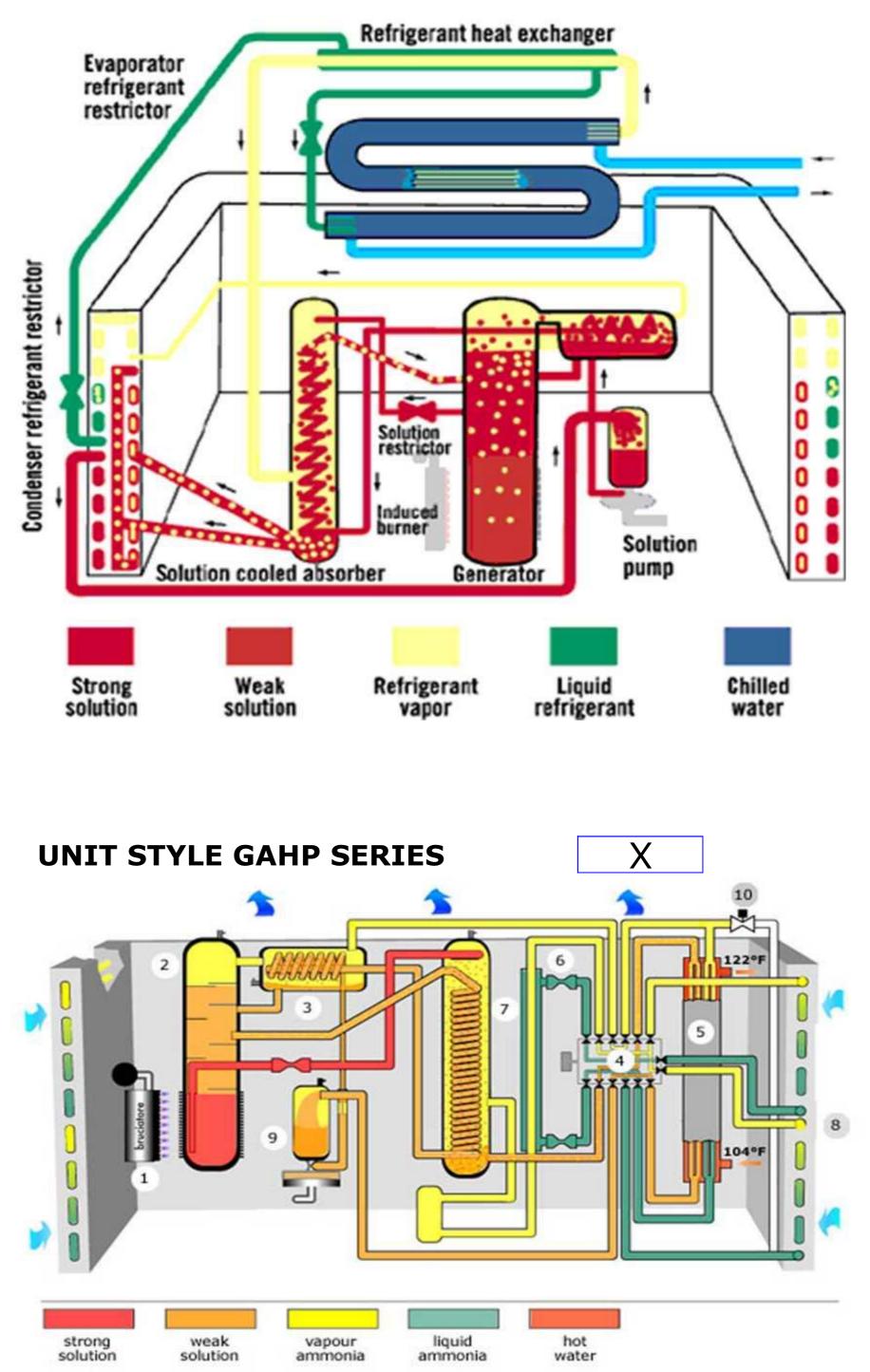
G	Check Chilled Water Inlet Sensor
G	Check Chilled Water Outlet Sensor
G	Check Ambient Sensor
G	Check Condenser Outlet Sensor
G	Check Generator Temp Sensor

UNIT RUN LOG Min/Maj

	CHW Inlet Temperature
	CHW Outlet Temperature
41.0 DegC	LTHW Inlet Temperature
49.0 DegC	LTHW Outlet Temperature
65.2 DegC	Generator Temperature
26.3 DegC	Ambient Air Temp
N/A	Condenser Air Off Temperature
N/A	Condenser Ref Out Temperature
N/A	Condenser Fan Motor Amps
0.5 Amps 1~	Blower Motor Amps
2.2 Amps 1~	Hydraulic Pump Motor Amps
N/A	17 Way Valve Condition
	Chilled Water Flow Rate
17 BAR	High Side Pressure
3 BAR	Low Side Pressure
3.4 BAR	Hydraulic Pump Deflection Pressure
	Hours Run
Ν	IS FURTHER WORK NEEDED. (Identify Below)

UNIT STYLE ACF SERIES

Х



	Drive Belt Condition
1.5 BarG	Chilled Water Circ Press.
1.5 BarG	Expansion Vessel Press.
G	Hydraulic Oil Cond.
G	Hydraulic Oil Level.
Y	Hydraulic Oil Replaced.
0.2 BarG	Hydraulic Oil Pressure.
G	AV Mounts
	1.5 BarG G Y

FAULTS FOUND:

G

ENGINEER SIGNATURE:

Daniel Condello

CUSTOMERS SIGNATURE:

DATE: 17/01/2020



BOILER ASSET SCHEDULE

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SITE NAME & ADDR	ESS	ENGINEER	DANIEL CONDELLO		CLIENT ASSET NUMBER	
OPEN UNIVERSIT	Y, WALTON HALL, MILTON KEYNES. MK7 6AA	COMPANY GAS SAFE.	0 ENGINEER GAS SAFE NO.	3814612		01010
REASON FOR VISIT	QUOTED REPAIRS	MANUFACTURER	ROBUR	MODEL	GAHP GS LT	
JOB NUMBER	ORAC.2778_EST366671	SERIAL No.	SEE ATTACHMENT	YEAR INSTALLED	01/01/2010	
PLANT LOCATION	GROUND FLOOR PLANT ROOM	GAS / FUEL TYPE	R717	QUANTITY (KG)	28.0 KG	
PLANT REFERENCE	ABSORPTION UNDER FLOOR HEATING	HTG LOAD SERVED	WALTON HALL BUILDING			

ROBUR ASSET SCHEDULE

UNIT NODE	MAN. DATE	TYPE	MODEL	SERIAL	R717 AMMONIA CHRG. (KG)	R718 REFRIG. CHRG. (KG)	GAS TYPE
1	2010	HEAT PUMP	GAHP GS LT	302060005	7.0 KG	10.0 KG	G20
2	2010	HEAT PUMP	GAHP GS LT	302060007	7.0 KG	10.0 KG	G20
3	2010	HEAT PUMP	GAHP GS LT	302060006	7.0 KG	10.0 KG	G20
4	2010	HEAT PUMP	GAHP GS LT	302061004	7.0 KG	10.0 KG	G20

ROBUR DDC & RB CONTROLLERS ASSET SCHEDULE

UNIT NODE	MAN. DATE	MODEL	SERIAL	FIRMWARE VERSION	BMS MODBUS ENA	
1	2010	DDC		4.010"	NO	



LOG - SITE PICTURES

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