

83 High Street, Hemel Hempstead, Hertfordshire, HP1 3AH.

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CUSTOMER NAME					SITE CONTACT (OPERATOR RESPONSIBLE FOR F-GAS COMPLIANCE)				SHEET NUMBER				
HARTFORD CARE LTD						GLENN - FACILITIES		12428					
SITE NAME & ADDRESS (PLANT OWNER F-GAS)					ENGINEER		DANIEL CONDELLO		CLIENT ASSET NUMBER				
HARFORT COURT, CATHERINGTON PLACE, PORTSMOUTH. PO3 6GN					MATE		CHARLIE ORLANDO		00934				
REASC	N FOR VISIT	QUOTED F	REPAIRS						MANUFACTUR	RER	ROBUR	MODEL	GAHP-A HT S
JOB N	JMBER	J:N/ 3585	. REF. ANG	ELA MERRI	CK				SERIAL No.		353860028	YEAR INSTALLED	03/06/2016
PLANT	LOCATION	GROUND F	LOOR NEX	T TO MAIN	PLANT RO	OM OUTSIDE			REFIGERANT	TYPE	R717	TOTAL REF. CHARGE	7.0 KG
PLANT	REFERENCE	ABSORPTI	ON PRE-HE	EAT DHW					REFRIGERAN'	T GWP	0	IND. REF SYS. CHARGE	10KG H2O
LOADS	SERVED	PRIMARY I							EQUIV. TONN	IES CO2E	0	FGAS LEAK CHECK FREQ.	NOT REQUIRED
WORK	CARRIED OUT:											-	
CARR	IED OUT REPLA	ACEMENT O	F PRESSUE	RE RELIEF \	/ALVE ON F	OBUR HEAT F	PUMP						
DATE	OF REPLACEM	ENT: 08/06	/2020										
RECO	VERED AMMON	NIA SOLUTI	ON FROM S	SEALED CIR	CUIT, REP	ACED HIGH F	RESSURE RE	ELIEF VALV	E KIT, RECHA	ARGED WI	TH EXISTING SOLUTION PURGE	FOR NON CONDENSABLE	TESTED OK.
IN NE	XT 5 YEARS N	O NEED TO	RECOVER	AMMONIA,	JUST REPL	ACE MAIN VAI	LVE.						
													
		ı		RS TIME ON				I			MATERI <i>A</i>	LS USED	
DAY	DATE	START	FINISH	TRAVEL	TOTAL	COMPLETE Y/N	MILEAGE	No. ENG	QUANTITY	DESCRIPT	ION		
DAY	DATE 08/06/2020	START 08:00				COMPLETE	MILEAGE	No. ENG	QUANTITY 1				
			FINISH	TRAVEL	TOTAL	COMPLETE Y/N					ION		
MON			FINISH	TRAVEL	TOTAL	COMPLETE Y/N					ION		
MON TUES			FINISH	TRAVEL	TOTAL	COMPLETE Y/N					ION		
MON TUES WED			FINISH	TRAVEL	TOTAL	COMPLETE Y/N					ION		
MON TUES WED THUR			FINISH	TRAVEL	TOTAL	COMPLETE Y/N					ION		
MON TUES WED THUR FRI SAT SUN	08/06/2020	08:00	FINISH 14:00	TRAVEL 2	TOTAL	COMPLETE Y/N					ION		
MON TUES WED THUR FRI SAT SUN		08:00	FINISH 14:00	TRAVEL 2	TOTAL	COMPLETE Y/N					ION		
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MON TUES WED THUR FRI SAT SUN	08/06/2020	08:00	FINISH 14:00	TRAVEL 2	TOTAL 8	COMPLETE Y/N Y					ION		
MON TUES WED THUR FRI SAT SUN	08/06/2020	08:00	FINISH 14:00	TRAVEL 2	TOTAL 8	COMPLETE Y/N Y			1	HIGH PRI	ION	IR RATED	
MON TUES WED THUR FRI SAT SUN	08/06/2020 CUSTOMER TO SIG	08:00	FINISH 14:00	TRAVEL 2	TOTAL 8	COMPLETE Y/N Y			1	HIGH PRI	ION ESSURE RELIEF VALVE KIT 32 BA	IR RATED	
MON TUES WED THUR FRI SAT SUN	08/06/2020 CUSTOMER TO SIGNATURE:	08:00	14:00	TRAVEL 2	TOTAL 8	COMPLETE Y/N Y			CUSTOMERS	HIGH PRI	ION ESSURE RELIEF VALVE KIT 32 BA	IR RATED	
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MON TUES WED THUR FRI SAT SUN	O8/06/2020 CUSTOMER TO SIGNATURE:	08:00	14:00 EERS TIME ON	TRAVEL 2 SITE	TOTAL 8	COMPLETE Y/N Y			CUSTOMERS	HIGH PRI	ION ESSURE RELIEF VALVE KIT 32 BA	GLENN	
MON TUES WED THUR FRI SAT SUN	08/06/2020 CUSTOMER TO SIGNATURE:	08:00	14:00 EERS TIME ON	TRAVEL 2 SITE	TOTAL 8	COMPLETE Y/N Y			CUSTOMERS	HIGH PRI	ION ESSURE RELIEF VALVE KIT 32 BA	IR RATED	
MON TUES WED THUR FRI SAT SUN F-GASS	O8/06/2020 CUSTOMER TO SIGNATURE:	08:00	14:00	SITE C&G 2	TOTAL 8	COMPLETE Y/N Y			CUSTOMERS	HIGH PRI	ION ESSURE RELIEF VALVE KIT 32 BA	GLENN	
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MON TUES WED THUR FRI SAT SUN F-GAS ADDIT:	CUSTOMER TO SIGNATURE: S QUALIFICATION: SIGNATURE DATE:	08:00	FINISH 14:00 EERS TIME ON / REQUIREE	SITE C&G 2	TOTAL 8	COMPLETE Y/N Y	122	2	CUSTOMERS CUSTOMER	HIGH PRI	ESSURE RELIEF VALVE KIT 32 BA	GLENN	
MON TUES WED THUR FRI SAT SUN F-GAS ADDITI	CUSTOMER TO SIGNATURE:	08:00 N FOR ENGINE	FINISH 14:00 EERS TIME ON / REQUIRED	TRAVEL 2 SITE C&G 2 08/	TOTAL 8	COMPLETE Y/N Y	122	2	CUSTOMERS CUSTOMER	HIGH PRI	ION ESSURE RELIEF VALVE KIT 32 BA	GLENN	NT



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PPM REPORT - ROBUR AMMONIA ABSORBER

CUSTOMER NAME		SITE CONTACT (OPERATOR	SHEET NUMBER		
HARTFORD CARE LT	D	GLENN - FACILITIES		12428	
SITE NAME & ADDRESS		ENGINEER	DANIEL CONDELLO		CLIENT ASSET NUMBER
HARFORT COURT, C	ATHERINGTON PLACE, PORTSMOUTH. PO3 6GN	F-GAS QUALIFICATION	C&G 2079 PART 1		00934
REASON FOR VISIT	QUOTED REPAIRS	COMPANY GAS SAFE.	0	ENGINEER GAS SAFE NO.	3814612
JOB NUMBER	J:N/ 3585. REF. ANGELA MERRICK	MANUFACTURER	ROBUR	MODEL	GAHP-A HT S
PLANT LOCATION	GROUND FLOOR NEXT TO MAIN PLANT ROOM OUTSIDE	SERIAL No.	353860028	YEAR INSTALLED	03/06/2016
PLANT REFERENCE	ABSORPTION PRE-HEAT DHW	REFRIGERANT	R717	QUANTITY (KG)	7.0 KG
CLG / HTG LOAD SERVED	PRIMARY BUFFER TANK	REFRIGERANT GWP	0	EQUIV. TONNES CO2E	0
	BOX CODES Y YES N NO G GOOD	F FAIR P	POOR B BAD	N/A NOT APPLICABLE	

COMBUST	ION	CHAMBER	Min

Check Seals / Silicon Gaskets
Check Fixings
Check Burner
Check Flame Sensor
Check Ignitor
Check Leads

COMBUSTION CHAMBER Maj

Check Chamber
Replace Burner Silicon Gasket
Check Condense Discharge
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
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

	,
G	Panelling
G	Drive Belt Condition
1.5 BarG	Chilled Water Circ Press.
1.5 BarG	Expansion Vessel Press.
G	Hydraulic Oil Cond.
G	Hydraulic Oil Level.
N	Hydraulic Oil Replaced.
0.3 BarG	Hydraulic Oil Pressure.
G	AV Mounts

ROBUR UNIT SAFETIES Min/Maj

3.035	PCB Firmware release
160.0 Deg C	Gen H.T Cut-Out
2.2 Deg C	LTL Cut-Out
160.0 Deg C	Generator Max Cut Out Temp
400.0 Deg C	Flue Max Cut out Temp
G	Air Pressure Switch Operation
45.0 Deg C	High Ambient Cut-out Temp
-25.0 Deg C	Low Ambient Cut-out Temp
160.0 Deg C	Generator Temp High Limit
G	Chilled Water Flow Switch Oper.
G	Oil Pump Rotation Sensor Check.

DDC CONTROLS Min/Maj

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

DDC CONTROLS CAL. CHECKS Min/Maj

	Check Chilled Water Inlet Sensor
	Check Chilled Water Outlet Sense
	Check Ambient Sensor
	Check Condenser Outlet Sensor
·	Check Generator Temp Sensor

UNIT RUN LOG Min/Maj

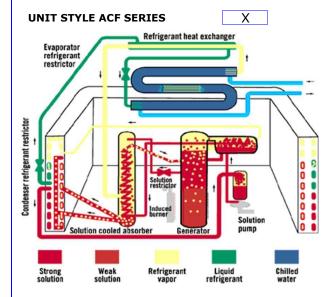
N	IS FURTHER WORK NEEDED. (Identify Below
287	Hours Run
4.2 BAR	Hydraulic Pump Deflection Pressure
4.6 BAR	Low Side Pressure
24.3 BAR	High Side Pressure
2600 L/H	Chilled Water Flow Rate
N/A	17 Way Valve Condition
	Hydraulic Pump Motor Amps
	Blower Motor Amps
	Condenser Fan Motor Amps
12.3 DegC	Condenser Ref Out Temperature
14.1 DegC	Condenser Air Off Temperature
16.9 DegC	Ambient Air Temp
107.0 DegC	Generator Temperature
61.5 DegC	LTHW Outlet Temperature
51.2 DegC	LTHW Inlet Temperature
	CHW Outlet Temperature
	CHW Inlet Temperature

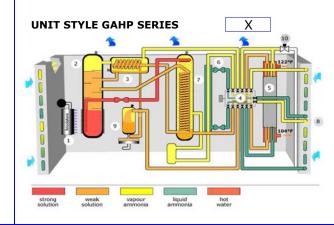
SOLUTION MAKE UP

10.0 KG	Refrigerant (H2O)
7.0 KG	Ammonia R717
360.0 CC	Inhibitor (Chromate)

CHILLED WATER MAKE UP

N/A	Glycol %
-	Inhibitor %
N/A	Defoam Agent
N	Water Leaks Present
N	Check CW Strainer





FAULTS FOUND:

*1 PLEASE NOTE THESE ARE THE UPDATED RUN HOURS FROM LAST FIRMWARE UPDATE.

ENGINEER SIGNATURE:

Daniel Condello

CUSTOMERS SIGNATURE:

DATE:

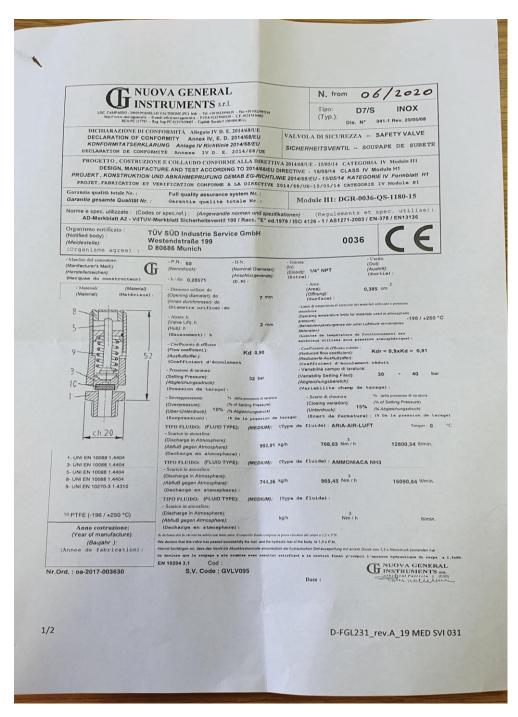
08/06/2020



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HARFORT COURT, CATHERINGTON PLACE, PORTSMOUTH. PO3 6GN		F-GAS QUALIFICATION	GAS QUALIFICATION C&G 2079 PART 1			00934
REASON FOR VISIT	QUOTED REPAIRS	MANUFACTURER	ROBUR	MODEL	GAHP-A HT S	
JOB NUMBER	J:N/ 3585. REF. ANGELA MERRICK	SERIAL No.	353860028	YEAR INSTALLED	03/06/2016	
PLANT LOCATION	GROUND FLOOR NEXT TO MAIN PLANT ROOM OUTSIDE	REFRIGERANT TYPE	R717	QUANTITY (KG)	7.0 KG	
PLANT REFERENCE	ABSORPTION PRE-HEAT DHW	CLG LOAD SERVED	PRIMARY BUFFER TANK			

CONTROLLER LOG CAPTURE





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SITE NAME	SITE NAME & ADDRESS		ENGINEER	DANIEL CONDELLO	CONDELLO		
HARFORT	HARFORT COURT, CATHERINGTON PLACE, PORTSMOUTH. PO3 6GN			F-GAS QUALIFICATION C&G 2079 PART 1			00934
REASON F	FOR VISIT	QUOTED REPAIRS	MANUFACTURER	ROBUR	MODEL	GAHP-A HT S	
JOB NUMB	BER	J:N/ 3585. REF. ANGELA MERRICK	SERIAL No.	353860028	YEAR INSTALLED	03/06/2016	
PLANT LOC	CATION	GROUND FLOOR NEXT TO MAIN PLANT ROOM OUTSIDE	REFRIGERANT TYPE	R717	QUANTITY (KG)	7.0 KG	
PLANT REF	FERENCE	ABSORPTION PRE-HEAT DHW	CLG LOAD SERVED	PRIMARY BUFFER TANK	· ·	·	

SITE PICTURE LOG

