

# Cream Chiller in London Needs

# **Further Attention**

Paul Osborne Aermec Service UK

# Introduction

#### Myself

Time served refrigeration and Air-conditioning engineer Completed installation service and repair Bespoke refrigeration design build projects including, Naval domestic, operational chilled water systems and Typhon wing tip computer cooling systems and recovery. Moved into service mangers roles and currently the UK service Manager Aermec UK responsibility for Service delivery, Warranty and technical Report.







#### Aermec

# AERMEC

# **Aermec Group**

Large scale family owned HVAC company with manufacturing facilities,

## **Equipment portfolio:**

- Air/Water cooled chillers –
- Free cooling units
- CRAHs and CRACs
- Adiabatic units
- Dry air coolers
- Fan Coils & controls

## Aermec UK

- Sales for all Aermec products
- UK technical support
- Service and warranty
- Spares

#### My role

Responsible for UK Service department and support staff. Running internal and service partners in PPM/Service delivery Managing Call out 24Hr Cover / 4Hr Response 365 days a year Warranty management and reports for all new products Service repair quotes and service delivery Identification/Supplying Parts







## **Service Reporting**



#### **Cream Chiller in London Needs Further Attention**

Engineers are well known and it is essential that they know their trade and are the service managers/clients friend in the event of issues. Getting equipment operating and or early identification is time critical.

As good engineers it is my experience that reports tend to be an area of contention for engineers, clients and back room office process.

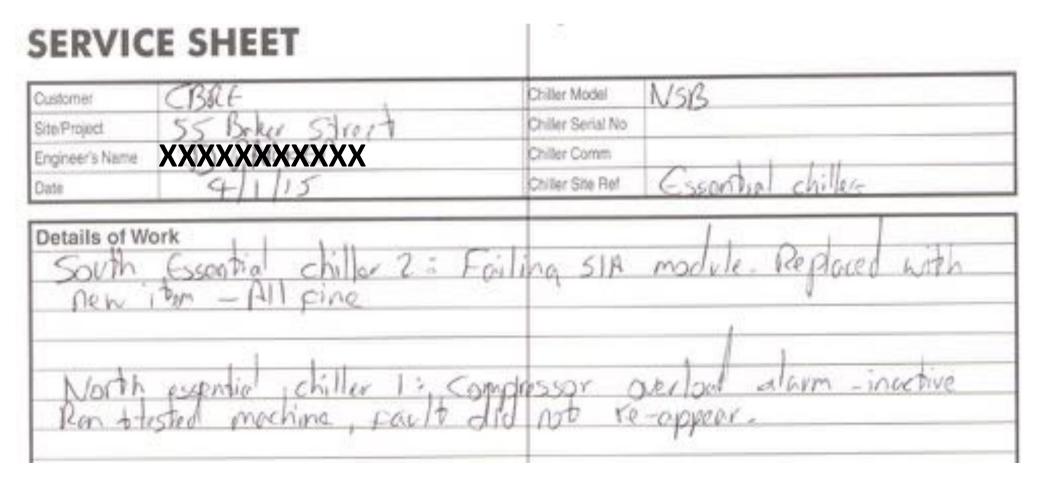
When I first moved to a service managers role most engineers did not have Lap tops, Reports where all had written including service, commissioning and warranty. Capturing all the information was then and as much so now very important. Engineers are very focused on fixing equipment put paper work is not always a priority

To complete a repairs quote all of the below information is required The Where. Site Address, Unit position, Client Name, (In London) The What. The full Model serial and any relevant information (Cream Chillers) The Why. Details of failure, parts required, remedial actions and time scales (Needs Further attention)



#### Example of typical early report sheet.

This report has some of the where, little to no unit details not even a full model number no serial numbers and very little details on the faults and whys.





#### Solution

Some years ago we supplied our lead techs with Lap tops, Created all our report sheets in excel, invested in phone based service reporting tools.

This in itself helped with better presentation and ability to save images to sent to the client but still relies on engineers to fill in all the details.

Customer	CBRE	Chiller Model	NS83602XEVF0F2	
Site/Project	SS Baker St	Chiller Serial No	06106676370001	6
Engineer's Name	Chris Maher	Chiller Comm	609358	1
Dute	03-05-19	Chiller Site Ref	North Non-Essential Chiller 2 - (1)	
Circuit 1 - Recovered 98k	gs of refrigerant into cylinders I	LM017264 + LM017921 + LM01	8042.	
Removed Damaged EXV	and Brazed in a New EXV. Repla	aced EXV Driver with New Drive	er.	
Pressure tested system o	vernight to 14bar ok. Changed	Liquid Line Driers and Evacuate	ed overnight.	
A		and all and a second		

Once the vacuum reached 0.95torr a successful rise test of 1hr was completed.

Recharged System with 98kgs of Recovered R134a from above cylinders; a further 30kgs on new R143a is required.

Ran system up to full load and took log data, See additional log sheet.

Left Chiller fully operational.

#### The Solution.



App based reporting tool which can identify information and transcribe. Record photo and video with audio and transcribe in a compressed format with cloud based. Allow for eternal reports to be unloaded to these reports. Easy share of content to clients / factory.

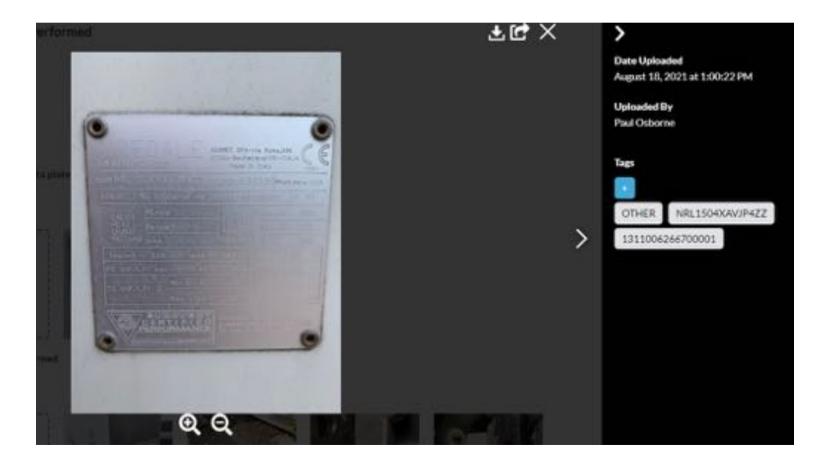
This app based system has a lot of the above and a few more.

**The where.** The app allows the engineer open the job and before they can get to inputting the job work details he has to input a work order/Job number, the site details and the client.

#Greenhouse - Bury St Edm	: @ ×	
Job Summary		
Work Order # #Greenhouse	Location Bury St Edmonds	Completed By Paul Osborne
Customer ESB	Date Completed August 31, 2021 at 2:26 PM	Job Status Completed
Job Tags		
Greenhouse ESB Bury St Edmonds		



**The what.** The engineers first step of any workflow is to take an image of the units data plate. This is then transcribed by the app and the information is to the right. Within the software we can review the details including the full model reference, serial number and build standard allowing quicker parts and history identification.





The why. Tailored work flows for all activities allow the engineers to record pictures, videos, work sheets, gauge readings and much more





Pressure test readings

Vacuum testing







#### System operations either pictorial or video







Pictorial details of internal parts ades identification of Parts without the reliance on factory support.

Waste transfer notes held within the report for customer compliance





One of the advantages that has proven very valuable is the ability to raise multiple visual inspections. In the image here this is of vandalism to new chillers at a well known south west London sporting event. The image was captured from a video walk round. We also have the coils from a few month earlier prior before the damage was done. This give us and the end user a clear time line and more importantly the responsibility of the main contractor for any repairs which will run into tens of thousands.

