



# SERVICE & MAINTENANCE

## CHILLERS, A/C, PROCESS, DATA & MISSION CRITICAL COOLING

### **SINCE 1992;**

Cooltherm has been supplying, installing and maintaining premium air conditioning equipment to blue chip company's and discerning end-users alike.

We are an award-winning family business which has grown into a sixty+ strong team covering the whole of the UK and we also use a unique skill set to assist our clients chilled water needs internationally.

### **WHAT SETS US APART?**

All our engineers are directly employed and hold the minimum qualification of City & Guilds NVQII (or equivalent), F-gas 2079 safe handling of refrigerants.

Back of house all our managers were once field service engineers and they have a wealth of knowledge and experience to back up our team on the road. Every customer has a dedicated point of contact within Cooltherm who understands your site, equipment and needs.

### **ENVIRONMENTALLY CONSCIOUS**

We have always led the charge when it comes to environmental awareness. Back in the early nineties Cooltherm paved the way in retrofitting the UK's large scale centrifugal R12 central chiller systems to R134a. We then pushed the R22 phase out, and now we are championing the new breed of ultra low global warming refrigerants such as R290 and the HFO's.

### **WE CARE**

You don't need to have megawatts of cooling to hold our attention, whether you have an industrial water chiller or a small domestic split system our ISO procedures will guarantee you get the very best service and value always.

### **First Two Hours Free**

**We are so confident that you will be impressed with our service and skill that we will offer any new customer within 25 miles of one of our regional offices the first two hours of our engineers time free of charge. This is the ideal opportunity to get that niggly problem that your site has had to live with solved once and for all.**

**Please call 0117 961 0006 and test our abilities.**





# MAINTENANCE RATES & GUIDE PRICING

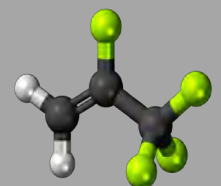
The following table shows our typical range of labour rates for the engineering services we provide, however tailored solutions are available on request.

Engineer Rates		Hourly Rate From			
Basic Maintenance Engineer		£35.00	Ex VAT		
Standard Pence per mile		£0.61	Ex VAT		
Fixed Price Call Out		Rate			
Within 25 Miles		£85.00	Ex VAT		
International Rates		P.O.A.	Ex VAT		
<i>Minimum call 4 hours *please ask for specific conditions</i>					
Typical Central Plant Rates		Rates From			
Small single circuit condensing unit		£135.00 per visit	Ex VAT		
Typical discounts Machines x2=25% Machines x3=33% Machines x6=50%					
Splits / VRV / DX Localised System Rates		Rates From			
Splits Wall / Floors (indoor / outdoor)*		£19.90	Each Ex VAT		
VRV Fan Coil only (Wall / Floor)*		£12.50	Each Ex VAT		
Discounts available	10-25 units	45-49 units	50-99 units	100-149 units	150+ units
	3%	7%	13%	20%	25%
<i>*The above pricing is for indication only, please ask for specifics and possible bulk discounts</i>					

**F-GAS**  
 Legislation requires a **legal minimum of 2 visits** per annum on HFC systems containing a 5-50 Tonne CO2 equivalent F-gas charge, larger systems need more frequent maintenances.

**RECOMMENDED NO OF VISITS PER ANNUM**  
 On standard chillers Cooltherm and most manufacturers recommend a minimum of three visits per annum, and on complex and mission critical systems four visits per annum is crucial.

**PROPANE (R290) AND HFO REFRIGERANTS**  
 The latest breed of refrigerants are significantly better for the environment and are therefore not classed as F-gases, however they still require frequent planned maintenance to keep them operating safely and efficiently, especially R290 (propane) plant with the flammability risk.



**KNOWLEDGE**  
 For more information on all of our services, and support on staying on the right-side of the law visit... [www.cooltherm.co.uk](http://www.cooltherm.co.uk)

## SPARE PARTS

We hold in our three main depots a sizable stock of spare parts to overcome most day to day problems which can arise, and we have access to an extensive global spares network to source virtually any part which may be required.

## CONTROLS

Don't let obsolete parts send your equipment to the graveyard prematurely, at Cooltherm we specialise in the retro fitting of modern controls and refrigerant systems into aging plant, ask one of our consultants to advise you on options on 0117 961 0006.

## TURBOMISER

We hold the UK's largest stock of Turbomiser™ parts, and specialise in Turbocor®.

DO YOU HAVE A UNIT SHORT OF GAS?

USING TOO MUCH ENERGY ON YOUR COOLING?

DON'T UNDERSTAND HOW TO OPERATE YOUR CONTROLS?

WE CAN HELP - CALL US TO ARRANGE YOUR FREE 2 HOUR INITIAL SITE VISIT





# WHY IS MAINTENANCE IMPORTANT?

The leak checking of plant containing Fluorinated Gases (F-Gases) is a legal requirement, along with the correct labelling of plant, and an onsite register of equipment.

The following table shows the maximum interval between leak checks.

Max Legal Interval	CO <sub>2</sub> (Equiv Tonnes)	Popular F-gases (total system weight)		
		HFC 134a	HFC 410a	HFC 404a
1 year	5	3.5	2.4	1.3
6 months	50	35	24	13
3 months	500	350	240	127

## THE LABELLING OF PLANT NEEDS TO SHOW:

- The type of F-gas in the machine
- Mass of the F-gas in KG
- The CO<sub>2</sub> equivalent in tonnes
- The global warming potential of the F-gas

## THE END IS NEAR FOR HFCS

From 2020 you won't be able to use some F-gases to refill existing refrigeration systems.

- The service ban will apply when the system contains more than 40 Tonnes of CO<sub>2</sub> equivalent, and / or
- The F-gas used has a global warming potential more than 2500 kg CO<sub>2</sub>

This will mainly effect systems using R404a, however most R22 retro-fit drops such as R422D will also be effected. Between now and 2030 the use of F-gases will be subject to ever increasing restrictions, and the final aim is for them not to be used at all by 2030. If you are selecting replacement equipment now, logically you shouldn't be selecting equipment containing F-gas as during the plants lifetime you will have to undertake major retro fitting activity at some point.

## WHY CHOOSE COOLTHERM?

Not only do Cooltherm pride ourselves on performing quality work on site, but we also appreciate how important it is to have a detailed audit trail of maintenance performed, works completed and materials used. We use a secure 'Share-Point' online database to store all your site records, available to you 365/24/7 at a few clicks of a mouse.

Cooltherm is ISO 9001, 14001 & 18001 accredited, along with Alcumus® SafeContractor, CHAS, UVDB Achilles, ConstructionLine, Refcom Elite, BESA, and has CIBSE accredited in-house consultants. We also have in-house health and safety and CDM consultants to assist not only our own teams, but those of our clients to ensure we are all fully compliant and operating safely for the benefit of all.

Cooltherm also has a highly experienced project team, offering turnkey supply and installation of equipment (standard or bespoke) for clients ranging from international banks to sensitive industrial facilities.

For more information visit [www.cooltherm.co.uk](http://www.cooltherm.co.uk)

# LOCATIONS

LOCAL SERVICE,  
GLOBAL COVERAGE



# SERVICES

## SCOPE OF WORKS UNDERTAKEN

### chillers ct service

- 24/7 technical and call-out support
- Tailored equipment maintenance
- Central plant/stand-alone systems
- Chilled water equipment and infrastructure specialists
- Industrial & commercial water chillers
- Split, VRV/VRF, DX air conditioning equipment
- Direct and indirect computer equipment cooling
- Process & mission critical cooling
- F-gas inspections/audits/registers
- Chillers stocked for immediate dispatch

### consultants

- Consultancy & support
- Bespoke design & installed solutions
- TM44 inspections
- Water Analysis & treatment

### Turbomiser™

- UK's No1 Turbomiser™ - Turbocor® Service & repair specialist

# ACCREDITATIONS



# ACCOLADES



WINNER



THE CIBSE LOW CARBON PERFORMANCE AWARDS

