



Advanced Cooling- Chiller Hire Fleet 2/2013

#### Rental Systems Available For;

- Process cooling
- Building Air conditioning
- Chilled water systems
- Low temperature refrigeration
- Ice rinks
- Events/film set cooling
- Data centre cooling
- Disaster recovery stand-by systems

#### Greater London Engineering Depot

Compound D  
Codham Hall, Great Warley  
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CM13 3JT

#### Useful Links

- [Chiller Hire Fleet](#)
- [Advanced Cooling Group](#)
- [Advanced Cooling Service](#)
- [Advanced Cooling Hire](#)
- [Cooling4FilmSets](#)
- [Events Cooling](#)
- [Data Centre Cooling](#)
- [Latest News](#)

**Advanced Cooling Hire is the specialist rental cooling division of the Advanced Cooling Group. We specialise in supplying temporary water chillers and space cooling systems nationwide.**

The division was formed by the management team at Advanced Cooling Solutions which has been trading successfully in the air conditioning service industry for many years- specialising in water chillers. The company has built a solid reputation within the industry and with our many clients. We wanted to bring our engineering know-how to bear on the niche high capacity rental cooling market, supplying high quality reliable units and systems.

The high capacity temporary cooling sector presents unique challenges in terms of the capital and running costs required to maintain a large fleet. As a specialist in the field we are able to closely control these costs by sourcing high quality equipment from major manufacturers, and utilising our extensive engineering capabilities, operate it reliably with minimal downtime costs. These cost efficiencies can be passed onto the customer, meaning we can offer some of the most cost effective rates in the industry without compromising on standards of customer service or equipment reliability.

#### OUR RENTAL FLEET:

**Specialist rental chillers and systems to suite all applications**  
**Over 10 Megawatts of portable cooling capacity available for hire**  
**Only chillers with an excellent record for reliability stocked**  
**Large stocks of hosing, cabling, pumps etc. for fast turnaround**

**New to the fleet is the Star Refrigeration Turbocor water chiller. We are one of the very first companies to offer this technology to the rental cooling market. Please see further details below.**

#### OUR SERVICE:

**24/7 Nationwide next day service for most installations**  
**Long and short term hire/ lease periods at unbeatable rates**  
**All temporary systems designed to fully meet your requirements**  
**24/7 technical back-up for complete peace of mind**

call now for a quote

**0207 739 1151**

24hr technical support and advice line

**0797 632 9294**

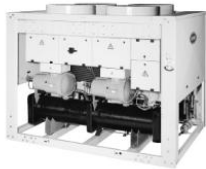
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**Manufacturer: Carrier**  
**Model: 30GX 207**  
**Cooling Capacity: 705Kw**

**Classic Carrier machines combining innovative design, high build quality and ultimate durability.**



A Carrier 30GX chiller

These machines are suitable for most applications including low temperature refrigeration and ice making. Their compact size and light weight makes them easy to transport and locate in confined areas, suiting them to temporary cooling installations where a portable, compact, powerful machine is required. Sophisticated controls allow them to adapt to all conditions- they keep running!



The high speed Carrier 06NA compressor

**Features:**

- Two independent refrigeration circuits using screw compressors
- Environmentally friendly R134a refrigerant used.
- Portable compact size and light weight for easy installation

**Applications:**

- Process and building cooling including data centres.
- Low temperature refrigeration and ice making.
- Base plant for portable space cooling systems.

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Technical Specification		Physical specifications	
cooling capacity@ Eurovent cond	705Kw	Weight	5520
Total power input, Kw	242	Height, mm	2297
Nominal amps	413	Width, mm	2254
Refrigerant type	R134a	Length, mm	5994
Refrigerant charge, Kg	124-81	Sound pressure, dB(A) 10-12	102
Refrigerant circuits/ compressors	2/ 3	Supply cable nom. size, mm <sup>2</sup>	350
Capacity steps	8	Water connection, mm	150
Minimum load, %	16		

**Application Keywords**

Process Cooling Hire  
 Data Centre Cooling  
 Air Conditioning Hire  
 Ice Rink Chiller Hire  
 Carrier Water Chiller Rental  
 Factory Production Cooling  
 Refrigeration Hire

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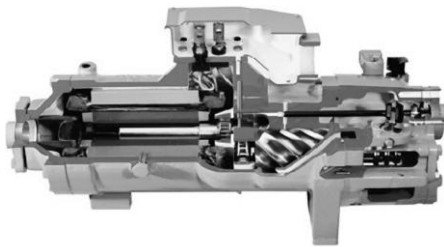


The Trane ERTAB water chiller

**Manufacturer: Trane**  
**Model: ERTAB 212**  
**Cooling Capacity: 330Kw**

**Excellent reliable machines from one of the leaders in the water cooling industry.**

Excellent design and build quality make this possibly one of the most reliable and adaptable units ever made. We have one of these chillers installed on a long term lease contract that hasn't stopped in 18 months. The Trane Adaptive control system maintains very close control of water flow temperature- typically + - 0.2 degrees. Highly recommended for all temporary cooling applications. Very reliable for low temperature refrigeration work.



The Trane Helixrotor CHHB screw compressor

**Features:**

- Two Independent refrigeration circuits using screw compressors
- Adaptive temperature control for very accurate leaving water temperature control.
- R404A refrigerant

**Applications:**

- Process applications where accurate water temps are req.
- Building air conditioning systems and data centres
- Ice Making/ Ice rinks and low temperature refrigeration.

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Technical Specification		Physical specifications	
cooling capacity@ Eurovent cond	330Kw	Weight, Kg	2680
Total input power, Kw	124	Height, mm	2265
Max amps	281	Width , mm	2146
Refrigerant type	R404A	Length, mm	
Refrigerant charge, Kg	2x29	Sound pressure, dB(A) 10-12	No data
Refrigerant circuits/compressors	2/ 2	Supply cable nom. size, mm	200
Capacity steps, %	100-17	Water connection, mm	125
Minimum load, %	17		

**Application Key**

- Air Conditioning Rental
- Trane Chiller Hire
- Process Cooling Hire
- Ice Making/ Ice Rinks
- Low Temperature Refrigeration
- Accurate Temperature Control
- Events Cooling
- Data Centre Cooling Hire

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The Trane ERTAB hire chiller

**Manufacturer: Trane**  
**Model: RTAB 110**  
**Cooling Capacity: 283Kw**

**Single screw versions of the 212 machine.**

Essentially the same machine as the 212 but with a single refrigeration circuit and large screw compressor. Once again, very reliable hire units with great controls and build quality. Excellent hire chillers.



Trane emergency chiller hire system, serving building air conditioning and computer rooms

**Features:**

- One refrigeration circuit using a screw compressor.
- Adaptive temperature control for very accurate leaving water temperatures.
- R404A refrigerant

**Applications:**

- Process applications where accurate water temps are req.
- Building air conditioning systems and data centres
- Ice Making/ Ice rinks and low temperature refrigeration.

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Technical Specification		Physical specifications	
Cooling capacity@ Eurovent cond	283Kw	Weight, Kg	2430
Total power input, Kw	101.5	Height, mm	2265
Max amps	232	Width, mm	2146
Refrigerant type	R404A	Length, mm	3327
Refrigerant charge, Kg	50	Sound pressure, dB(A) 10-12	No data
Refrigerant circuits/compressors	1/ 1	Supply cable nom. size	200
Capacity steps, %	100-20	Water connection,mm	125
Minimum load, %	20		

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**Application Key**

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- Trane Chiller Hire
- Process Cooling Hire
- Ice Making/ Ice Rinks
- Low Temperature Refrigeration
- Accurate Temperature Control
- Events Cooling
- Data Centre Chiller Hire



A Trane ECGAN 212 packaged water chiller

**Manufacturer: Trane**  
**Model: ECGAN 212**  
**Cooling Capacity: 390Kw**

**Completely self contained packaged water chillers.**

Another very reliable machine from Trane. Two refrigeration circuits featuring 6 scroll compressors for good multi-stage control and lower inrush currents. These hire chillers have pumps, expansion vessels and tanks fitted- a complete, compact, rental cooling package.

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**Features:**

- Two refrigeration circuits.
- Adaptive temperature control for very accurate control
- Fully self contained, includes pump, tank and expansion vessel.

**Applications:**

- Process applications where accurate water temps are req.
- Building air conditioning systems and data centres
- Base plant for temporary space cooling plant.

**Application Key**

- Trane Chiller Rental
- Air Conditioning Rental
- Temporary Process Cooling
- Temporary Cooling Hire
- Emergency Chiller Hire
- Events Cooling
- Film set Cooling
- Packaged Water Chiller
- Temporary Factory Cooling

Technical Specification		Physical specifications	
Cooling capacity@ Eurovent cond	390Kw	Weight, Kg	3370
Total power input, Kw	139	Height, mm	2323
Nominal amps	326	Width, mm	2230
Refrigerant type	R407C	Length, mm	5135
Refrigerant charge, Kg	56-56	Sound Pressure, dB(A) 10-12	96
Refrigerant circuits/compressors	2/ 6	Supply cable Nom. size, mm	240
Capacity steps	6	Water connection, mm	100
Minimum load, %	17		

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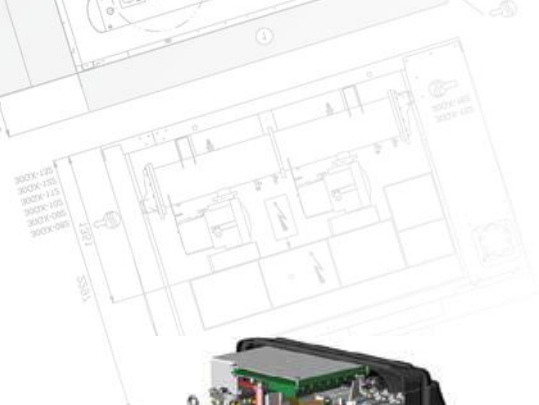
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Turbocor compressor cutaway

**Manufacturer: Star Refrigeration**  
**Model: Indigo Turbocor Chiller**  
**Cooling Capacity: 750Kw**

**A Star Refrigeration water chiller featuring the cutting edge Turbocor compressor technology.**

Built to Stars very high standards and featuring the Turbocor oil-less compressor makes this one of the most efficient chillers available to the rental market today. The magnetic frictionless bearings, low starting current and high low load efficiencies give the Turbocor compressor major advantages over other commonly used compressor technologies. Highly recommended for longer term lease periods where energy efficiencies can lead to considerable cost savings.



Internal view of the rental unit showing the compressors and flooded evaporator

**Features:**

- Fitted with 3 Turbocor magnetic bearing compressors.
- One refrigeration circuit using environmentally friendly R134a refrigerant
- High efficiency- reduced costs

**Applications:**

- Process applications
- Building air conditioning systems and data centres
- Ice Making/ Ice rinks and low temperature refrigeration.

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**Application Key**

- Turbocor Chiller Hire
- High Efficiency Water Chiller
- Chiller Leasing/ Hire Purchase
- Turbocor Compressor
- Reduced Energy Costs
- Cheaper Rental Costs
- Low Long Term Hire costs

Technical Specification		Physical specifications	
Cooling capacity @ Eurovent con	750	Weight (kg)	10197
Total power input, Kw	261	Height (mm)	2350
Nominal unit amps	450	Width (mm)	2300
Refrigerant type	R134a	Length (mm)	9100
Refrigerant charge, Kg	180	Sound pressure, dB(A) 10-12	65
Refrigeration circuits/compressors	1/ 3	Supply cabling nom. size, mm	350
Capacity steps, %	100-5	Water Connection, mm	150
Min. load %	>5		

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A Climaveneta SRAT chiller

**Manufacturer: Climaveneta**  
**Model: BE/ SRAT/ SL-3603**  
**Cooling Capacity: 950kw**

**A reliable, super low noise, high capacity water chiller.**

This machine has been modified by us into two sections making this a modular unit that can be used in a 650 or 950kw configuration. Its modular sections can also be fitted into more awkward areas than a standard machine of this size- an excellent rental choice for all process and air conditioning hire applications. Its low noise design keeps the neighbours happy to! **Standard machines also available for high capacity applications.**



The modified Modular SRAT chiller installed providing emergency process cooling

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**Application Key**

Climaveneta Rental Chiller  
 Ultra Low Noise Hire Chiller  
 Modular Rental Water Chiller  
 Portable Temporary Chiller Hire  
 High Capacity Rental Chiller  
 Emergency Data Centre Cooling  
 Long Term Water Chiller Leasing

**Features:**

- Very low noise design.
- Modular sections- can be used in a 650 or 950kw configuration
- Modular sections can be fitted into awkward areas and transported more easily.

**Applications:**

- Process applications
- Building air conditioning systems and data centres
- Ideal in high density residential areas where low noise is critical.

Technical Specification		Physical specifications	
Cooling capacity @ Eurovent con	950	Weight (kg) Total both sect.	12000
Total power input	473	Height (mm)	
Nominal unit amps	799	Width (mm)	
Refrigerant type	R407C	Length (mm)	
Refrigerant charge, Kg	3x125	Sound pressure, dB(A) 10-12	
Refrigeration circuits/compressors	3/ 3	Supply cabling nom. size, mm	480
Capacity steps	12	Water Connection, mm	150
Min. load %	8		

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A Daikin EUWAT rental chiller



EUWA\* 160 - 200 KX

High quality compact design

**Manufacturer: Daikin**  
**Model: EUWAT 120 KAXY**  
**Cooling Capacity:**

Typical high Daikin build quality, reliability and compact size make these machines an excellent choice for all hire applications. Featuring two compressor circuits fitted with the very durable Daikin single screw compressor. Excellent hire chillers.

**Features:**

- Very reliable Daikin single screw compressors fitted.
- Two refrigeration circuits using environmentally friendly R134a refrigerant
- Compact size/ weight.

**Applications:**

- Process applications
- Building air conditioning systems and data centres
- Ice Making/ Ice rinks and low temperature refrigeration.

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Technical Specification		Physical specifications	
Cooling capacity @ Eurovent con	316	Weight (kg)	3260
Total power input, Kw	130	Height (mm)	2156
Nominal unit amps		Width (mm)	2210
Refrigerant type	R134a	Length (mm)	3980
Refrigerant charge, Kg		Sound pressure, dB(A) 10-12	98
Refrigeration circuits/compressors	2/ 2	Supply cabling nom. size, mm	200
Capacity steps	8	Water Connection, mm	125
Min. load %	12.5		

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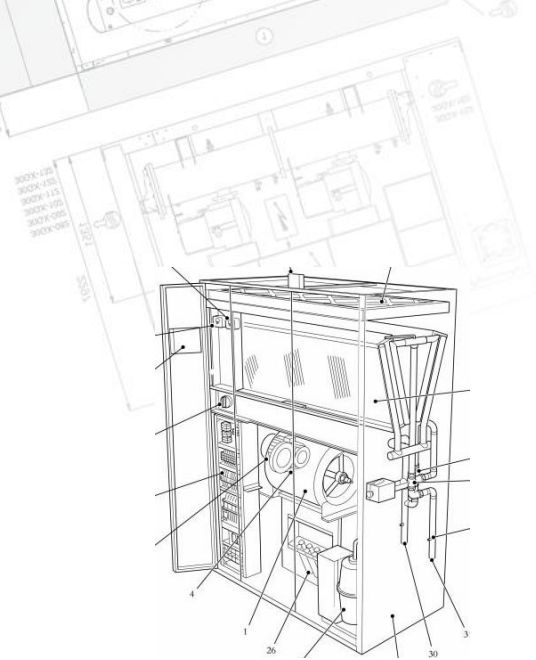
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**Application Key**

- Daikin Water Chiller Hire
- Air Conditioning Hire
- Portable Compact Cooling
- Process Cooling
- Film Set Cooling Rig
- Events Cooling Rig
- Climate Hire
- Ice Making/ Refrigeration



The Airedale Alphacool close control unit



Trane packaged water chillers supply chilled water

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### Application Key

Temporary Events Cooling  
 Marquee Air Conditioning  
 Film Set Cooling/ Smoke Extract  
 Air Filtration  
 Temporary Climate Control  
 Factory/ Warehouse cooling hire  
 Production Area Air Conditioning  
 Data Centre Cooling/ Close Control  
 Disaster Recovery Stand-by

## TEMPORARY SPACE COOLING RIGS

### Cooling Capacity: 50-300Kw

**Completely self contained space cooling hire rigs, featuring water chillers and Airedale close control fan coil units.**

These versatile systems are suited to all large scale temporary space cooling applications, including amongst others, exhibitions/ events, film sets, marquees/ temporary structures, data centres and factory production areas.

The fan coil units feature high pressure scroll fans, which, along with flexible ductwork get the air to where you need it reducing hot spots. The fitted filters and high air turnover/ movement ensure a cooler cleaner environment with less dust.

The complete system can be centrally controlled from a laptop with simple to understand graphics. System status can be viewed and controlled as required from this point with one button control of temperature set-points and functions such as Air Dumping. Very close control of the working environment is possible in this way.

#### Features:

- High volume air movement reduces hot spots.
- Fully computer controlled for ease of use and close temperature control
- Air Dumping and filters clean the air removing dust/smoke

#### Applications:

- Film sets, large events, Marquees- climate control, exhibitions.
- Data centre disaster recovery- Additional temporary cooling.
- Temporary refrigeration of structures and spaces.

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The Climate Control Air Handling Unit.

Fully portable with a lifting frame. Ideal for all HVAC hire applications



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### Application Key- links

[Climate control unit hire](#)

Air handling unit rental

[Film sound stage cooling/ heating](#)

[Event cooling hire/ heating hire](#)

[Data centre cooling hire](#)

Process/ production climate hire

Dehumidifier hire

Flexible and fabric ducting hire

## Rental air handling unit

**Model: ACS 160/120**

**Cooling Capacity: 160kw Heating: 120kw**

**Professional, fully winterised climate control units in portable lifting frames. Need your space heating or cooling? These units put you firmly in control of your working environment.**

Purpose made air handling unit hire. These machines offer un-paralleled control of the working environment. Used in conjunction with water chillers for cooling and fitted with on board electric heater banks, the units feature sophisticated controls to maintain exact control of space temperatures. High volume, high pressure fans get the air where you need it, either directly or through flexible ducting- can be supplied with air-sock fabric ducting systems.

#### Features:

- Fully automated control of heating and cooling to set-point
- On-board electric heating, chilled water cooled.
- Powerful high volume fan with filters fitted. 500mm duct con.

#### Applications:

- Large scale space climate control- including; Exhibitions- events- concerts- storage and production areas  
 Film/ Television set, sound stage cooling/ climate control

Technical Specification		Physical specifications	
Cooling cap @ 27Deg air on, db	160	Weight (kg) Total both sect.	3500
Heating cap @ -5Deg air on, db	120	Height (mm)	2250
Maximum unit amps	185	Width (mm)	2550
Air volume, m3/ hr	17,500	Length (mm)	2190
Heating type, stages	Elect, 3	Sound pressure, dB(A) 10-12	Not/avail
Cooling type	C/water	Supply cabling nom. size, mm	2x35mm
Water flow rate lt/s	8.46	Water Connection, mm	100cam

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