

# Danfoss Heat Pumps UK

## Heat Pump Training Courses



### HEAT PUMP 1 - INTRODUCTION TO DANFOSS HEAT PUMPS

Sustainable, efficient energy systems such as heat pumps are becoming an important sector of the building services industry. For those starting out in heat pumps, Danfoss Heat Pumps UK Ltd's 1 day manufacturer training is designed to equip attendees with a basic knowledge of heat pump technology, systems and applications.

#### Duration

**1 day**

Day 1: 0900 - 1630

#### Who should attend?

- Installers new to heat pumps
- Architects
- Developers
- Specifiers
- Building services engineers

#### PRICE

- £145 + VAT per delegate

#### What's included

- Lunch
- Training pack
- Manufacturer's training certificate

#### Pre-requisites

- A business interest in heat pump technology

**Max course size:** 10 people



#### Course programme

- Introduction to Danfoss heat pump technology
- Introduction to product range and suitable applications
- Understanding the advantages over alternative heat sources
- Introduction to control functionality, operation and software
- Funding awareness
- Q&A

Each course is run by highly skilled members of staff who will be able to share with you their in depth knowledge and experience of heat pump systems. Their expertise is an invaluable resource for all attendees.

All events take place at our purpose built training facility located at our head office in Sheffield. If you require help with directions or other local information including accommodation and transport, please do not hesitate to contact our receptionist for advice.

**3 Parkwood Business Park, Parkwood Road, Sheffield, S3 8AL**

All courses booked for dates in February will receive a 30% discount

For further information or to book your place please call us on **0114 270 3900** or email **[jennifer.mann@danfoss.com](mailto:jennifer.mann@danfoss.com)**

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### HEAT PUMP 2 - HEAT PUMP APPLICATION AND INSTALLATION

To ensure a high level of competence in the installation of Danfoss products, Danfoss Heat Pumps UK Ltd have introduced a 2 day manufacturer training course designed to equip attendees with the skills and expertise required to provide high quality heat pump installation and commissioning services.

#### Duration

##### 2 days

Day 1: 0900 - 1630

Day 2: 0900 - 1630

#### Who should attend?

- Heating/installation/service engineers
- Commissioning engineers

#### PRICE

- £290 + VAT per delegate

#### What's included

- Lunch
- Training pack
- Installation manuals
- Manufacturer's training certificate

#### Pre-requisites

- Attendance at Danfoss Heat Pump 1 training course
- Unvented hot water G3
- Good working knowledge of heating and hot water systems

**Max course size:** 10 people



#### Course programme

##### Day 1

- Product range overview
- Heat pump sizing
- Heat source collector design
- Mechanical installation
- Electrical installation

##### Day 2

- Practical heat pump operation
- Commissioning and client handover
- Fault finding and troubleshooting

Please note: This course is not designed to cover borehole drilling or significant ground works, use of heavy plant and equipment or handling of refrigerants. The units covered in the course are pre-charge sealed units which do not require the refrigerant circuits being broken.




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# Training Courses 2010



Date	January	February	March	April	May	June	July
1				Heat pump 2	Weekend	Heat pump 1	Heat pump 2
2	Weekend	Heat pump 1	Heat pump 1		Weekend	Heat pump 2	
3	Weekend	Heat pump 2	Heat pump 2	Weekend		Heat pump 2	Weekend
4		Heat pump 2	Heat pump 2	Weekend	Heat pump 1		Weekend
5					Heat pump 2	Weekend	
6		Weekend	Weekend		Heat pump 2	Weekend	
7		Weekend					
8					Weekend		
9	Weekend				Weekend		
10	Weekend			Weekend			Weekend
11				Weekend			Weekend
12						Weekend	
13		Weekend	Weekend	Heat pump 1		Weekend	
14		Weekend		Heat pump 2			
15				Heat pump 2	Weekend	Heat pump 1	
16	Weekend	Heat pump 1	Heat pump 1		Weekend	Heat pump 2	
17	Weekend	Heat pump 2	Heat pump 2	Weekend		Heat pump 2	Weekend
18		Heat pump 2	Heat pump 2	Weekend	Heat pump 1		Weekend
19					Heat pump 2	Weekend	
20		Weekend	Weekend		Heat pump 2	Weekend	
21		Weekend	Weekend				
22					Weekend		
23	Weekend				Weekend		
24	Weekend			Weekend			Weekend
25				Weekend			Weekend
26						Weekend	
27		Weekend	Weekend	Heat pump 1		Weekend	
28		Weekend	Weekend	Heat pump 2			
29		Weekend		Heat pump 2	Weekend	Heat pump 1	
30	Weekend	Weekend	Heat pump 1		Weekend	Heat pump 2	
31	Weekend	Weekend	Heat pump 2	Weekend		Weekend	Weekend

-  Heat pump 1
-  Heat pump 2
-  Weekend



# Heat pump training - application & questionnaire

(Please note: Any information supplied is purely intended to ensure that we continue to deliver the highest possible standards within our training programmes. All information will be treated with strict confidence.)

Please tick the course you are applying for: Heat Pump 1  Pref date: \_\_\_\_\_ Heat Pump 2  Pref date: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Tel: \_\_\_\_\_ Email: \_\_\_\_\_

### Pre-course questionnaire:

#### 1) Please select your professional area/s of occupation (select as many as appropriate).

<input type="checkbox"/> Installation	<input type="checkbox"/> Refrigeration
<input type="checkbox"/> Electrical	<input type="checkbox"/> Management
<input type="checkbox"/> Service / maintenance	<input type="checkbox"/> Building design / architectural
<input type="checkbox"/> Plumbing	<input type="checkbox"/> Other (please specify):

#### 2) Please select any industry qualifications that you have obtained.

<input type="checkbox"/> NVQ 3 plumbing	<input type="checkbox"/> LOGIC Solar Thermal Domestic Hot Water
<input type="checkbox"/> ACS – Gas qualification	<input type="checkbox"/> City & Guilds 2382 17th Edition Wiring Regulations
<input type="checkbox"/> F-Gas City & Guilds 2078 / 2079	<input type="checkbox"/> LOGIC Energy Efficiency for Domestic Heating
<input type="checkbox"/> LOGIC Unvented Domestic Hot Water	<input type="checkbox"/> Other (please specify):

#### 3) Please tell us where you heard about this training course.

<input type="checkbox"/> Trade publication	<input type="checkbox"/> Danfoss Sales	<input type="checkbox"/> Danfoss Technical
<input type="checkbox"/> Danfoss website	<input type="checkbox"/> Colleague recommendation	<input type="checkbox"/> Other (please specify):

#### 4) Please name any other heat pump specific training course/s that you have previously attended.

#### 5) How long have you been working in the heating/renewable energy industry?

<input type="checkbox"/> < 1 year	<input type="checkbox"/> 1-2 years	<input type="checkbox"/> 2-5 years	<input type="checkbox"/> 5-10 years	<input type="checkbox"/> 10 years +
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#### 6) Have you installed heat pumps before? (If "yes" please state the brand i.e. Danfoss)

<input type="checkbox"/> Yes:	<input type="checkbox"/> No
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#### 7) Have you commissioned heat pumps before? (If "yes" please state the brand i.e. Danfoss)

<input type="checkbox"/> Yes:	<input type="checkbox"/> No
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#### 8) Please select the area/s below that you are most interested in learning about (Max 3)

<input type="checkbox"/> How a heat pump works	<input type="checkbox"/> Electrical connections and wiring
<input type="checkbox"/> Control & operation of the heat pump	<input type="checkbox"/> Refrigeration
<input type="checkbox"/> Heat pump sizing	<input type="checkbox"/> Fault finding
<input type="checkbox"/> Commissioning	<input type="checkbox"/> Other: please specify:

Please fax or email this form back to us. Fax: 0114 275 1398 Email: [jennifer.mann@danfoss.com](mailto:jennifer.mann@danfoss.com)