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Refrigeration  
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Working*

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([www.octavesim.com](http://www.octavesim.com)) **How Air  
Conditioning**

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**Works** 5 Things  
to consider  
before becoming  
an HVAC Service  
Tech??

---

This video is an  
animation of how  
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cycle works,  
with each  
components  
function.avi

---

2- Fundamentals

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3 Refrigeration  
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**Unit 36-**  
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Applied to Air  
Conditioning How**

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to **DESIGN** and  
**ANALYSE** a  
refrigeration  
system

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Lab

( PDF )

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*Page 14/86*

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Air? Conditioning  
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main components  
are compressor,  
condenser and  
receiver plus  
electrical and  
communications  
systems. The  
models are  
plugged onto the  
base....



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A leading  
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Equipments,



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equipments for  
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and allied  
industries all  
over in india.

We also  
manufacture the  
equipments and  
control systems  
for sugar

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mainly mill  
automation,  
boiler

instrumentation,  
prd stations and  
embibition water  
control system.

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Air Conditioning  
Laboratory  
Equipments ...  
Refrigeration &*

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Air Conditioning

Lab. Add to  
cart. Chilled  
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apparatus, water  
cooler test rig,  
ice plant  
trainer, split  
air conditioner  
test rig,  
ductable air-  
conditioner test  
rig and  
rectangular

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overshot weir  
from Ambala.

Conditioning

Lab Manual  
*Refrigeration*

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*- Water Heat*

*Pump ...*

The experimental  
refrigeration  
cycle test rig  
consist of a  
compressor unit,  
condenser,

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evaporator,  
cooling chamber,  
controlling  
devices and  
measuring  
instruments  
those are fitted  
on a stand and a  
control panel.

*LABORATORY*

*MANUAL*

*REFRIGERATION*

*AIR CONDITIONING*

*Page 31/86*

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and air conditioning field. This comprehensive text teaches both fundamental principles and the service techniques needed to diagnose and remedy refrigeration and HVAC

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confined space.

The  
refrigeration  
cycle of the air  
conditioning  
system transfer  
the heat from

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And Air space to  
outdoor space.

## 2.0 Problem

Statement Split  
Unit simulates  
the common types  
of AC System  
used in a  
building. The  
unit is equipped  
with four main  
components which  
are evaporator,  
compressor,

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Condenser and expansion valve. Each of the components has its own function to transfer heat, thus ...

*The refrigeration cycle of the air conditioning system ...*

Refrigeration

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and Air

Conditioning  
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Conditioning Lab  
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equipment that  
is precisely  
engineered by  
our skilled man  
force. Known for  
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efficiency and

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robust  
manufacturing,  
these are widely  
demanded in the  
market.

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*Laboratory -*

*Cascade ...*

Refrigeration

compressors and

air conditioning

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compressors provide air conditioning, heat pumping, and refrigeration for large-scale facilities and equipment. They use compression to raise the temperature of a low-pressure gas, and also

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remove vapor  
from the  
evaporator. Most  
refrigeration  
compressors  
(refrigerant  
compressors) are  
large,  
mechanical units  
that form the  
heart of  
industrial ...

*Refrigeration*

*Page 40/86*



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*And Air  
Air Conditioning  
Compressors ...*

*Lab Manual*  
The Basic Air  
Conditioning  
Laboratory is  
arranged on a  
vertical panel  
together with  
the basic  
condensing unit.  
The Unit  
demonstrates the  
principle of air

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And Air conditioning  
Cooling in a room as well as provide clear observation of the air conditioning components. A transparent air duct with air fan and evaporator (cooling heat exchanger) is provided to

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simulate a basic  
domestic indoor  
unit.

## Lab Manual

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*TRAINER ...*

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County, & New

York City

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contractor with  
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experience. David

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throughout the 5  
boroughs.

*Refrigeration &  
Air Conditioning  
(AC) Specialist*  
Modern

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to apply theory  
and principles  
learned during  
our classes and  
lab settings.

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designed to help  
you to develop,  
operate, and  
test  
refrigeration  
equipment. ...

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*Conditioning*

*Lab Manual  
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in ...*

The field of refrigeration and air-conditioner has undergone tremendous changes in the last century.

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And Air more  
new refrigerants  
having improved  
properties are  
being produced  
globally.

Research in this  
field is now  
directed towards  
producing better  
environment  
friendly  
refrigerants and  
in replacing old

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Refrigeration  
systems using  
halogenated  
refrigerants  
with the newer  
ones.

The Modern  
Refrigeration  
and Air  
Conditioning Lab  
Manual has been

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And Air to  
accompany the  
text, Modern  
Refrigeration  
and Air  
Conditioning.  
Completing these  
lab activities  
will help you to  
master the  
principles of  
HVACR operation  
and service.

This Lab Manual

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is designed for  
specific hands-  
on activities.

However, these  
lab activities  
can be expanded  
or modified.

Completion of an  
activity will  
depend on the  
equipment  
available,  
course  
objectives, and

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the individual  
instructor. Each  
lab activity has  
specific

objectives that  
are achieved by  
the completion  
of the  
assignment.

References to  
chapters in the  
Modern  
Refrigeration  
and Air

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Conditioning  
textbook allow  
you to review  
the related  
content prior to  
or while  
performing the  
activity. The  
specific  
equipment  
required for the  
activity is  
listed as an aid  
to preparation.



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Review questions are also part of the lab activities to help you fully understand the concepts involved. Safety is an important part of all activities. The primary causes of accidents are carelessness and

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lack of knowledge of the correct operating and working procedures. It is essential that good safety habits begin in the lab setting. Basic safety procedures for various conditions are

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identified in  
this Lab Manual.  
Each lab  
activity also  
includes a list  
of safety  
reminders  
relevant to the  
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EPA rules and  
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refrigerant  
recovery,  
recycling, and  
reclaiming. Both  
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technicians will  
benefit from the  
comprehensive  
approach of this  
text, which  
provides a solid  
and thorough



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to maintain and  
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today's complex  
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conditioning,

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systems with  
REFRIGERATION

AND AIR

CONDITIONING

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to-understand

book provides

hands-on

guidance,

practical

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and the solid  
foundation you  
need to fully  
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repair, its  
environmental  
challenges, and  
their solutions.  
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employment  
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examples, more  
than 260  
supporting  
photos, and  
unique Service  
Call features  
bring concepts  
to life and help

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critical skills  
you need for  
success in your  
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this proven lab  
manual. Each  
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heating, and air

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correlated to  
the following  
solutions:

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Heat Pumps, 2e  
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2e.

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a logical and

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based on current  
trends,  
technology, and  
industry practic  
es--including

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coverage of the

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terminology,  
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enhance your

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students' lab  
experience. The  
manual includes  
a variety of  
resources, such  
as lab  
activities,  
objectives,  
materials lists,  
step-by-step  
procedures,  
illustrations,  
and review  
questions.

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## Conditioning

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