

# Chapter 3

## The Refrigeration Cycle

Find the words in the grid. Words can go across, down and in the two forward diagonals.

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F M D K T R E F R I G E R A T I O N C Y C L E M R
S N X I N T E G R A L R E C E I V E R D R I V E R
T Q K P T H E R M A L E X P A N S I O N V A L V E
A Q Y F X Z T T F P T H J R H Q R P K X Z W H G E
R C N F E X P A N S I O N C O O L I N G D W H G V
V F N P D M J M B T C R C O M P R E S S O R R G B
E F L O O D E D E V A P O R A T O R E Q Z A N R R
D N K H C H J Y M D R C T R L L J D M Q H I N O T
E H K F M O Z P Q X L L P R G Y I L Z C L Y T M P
V M R N K T M V R Q V H D V B S M Z R O D A L R Z
A T T F R W H P K E Q J D F W D R E O B L G O D F
P V H R Z Z Y I R N S N W O L X D C Q U N S K K G
O D E E G V J K G E T S L S L N - M M M N B R P C
R D R C O N Z G R H S R U P U B T U R E X O H D O
A R M E V D D L F O S S K R U P C T S P T N N P N
T C I I E Z P I K C R I I S E C E E F A R F G K D
O L S V R H N Q H R Y I D O A S R R R N P J T Q E
R R T E C K C U Q H D R F E N U W O H K B J J N N
V J O R H J M I N M L L W I S H P I Q E P Q P N S
L J R D A V N D N C L M H S C A E G T T A T V L E
T H K R R G F L Z X V C E C V E K A V C T T K M R
N D J I G G V I B L K R W E P G T N T F H F L M N
Q Q K E E N G N M B P D B K B C T U R I Y L K H G
F J F R L L Y E L T L N P B Q G R P B D N N K K H
W Z N M T B R F N H Y D C X K G J D Y E Q G T G M
  
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| Accumulator         | Integral receiver drier | Refrigeration cycle     |
| Compression heating | Liquid line             | Starved evaporator      |
| Compressor          | Low side                | Sub-cooling             |
| Condenser           | Orifice tube            | Superheat               |
| Evaporator          | Overcharge              | Thermal expansion valve |
| Expansion cooling   | Pressure sensor         | Thermistor              |
| Flooded evaporator  | Pressure switch         | Undercharge             |
| High side           | Receiver drier          |                         |