



ADVANCED TEMPERATURE CONTROL

TRUCK REFRIGERATION SYSTEMS

REFRIGERATION SYSTEMS SPECIFICATIONS

M960304 – 2011 REVISION

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ADVANCED TEMPERATURE CONTROL

EVAPORATOR MOUNTING INFORMATION

ADVANCED TEMPERATURE CONTROL SERIES 8, 12, 15 AND 16 EVAPORATORS ARE DESIGNED TO BE CEILING MOUNTED ONLY.

ADVANCED TEMPERATURE CONTROL SERIES 14, 18, AND 20 EVAPORATORS ARE DESIGNED TO BE CEILING OR FRONT WALL MOUNTED.

NOTE:

IF THE EVAPORATOR IS WALL MOUNTED THE FRONT CORNERS OF THE EVAPORATOR MUST BE SUPPORTED FROM THE CEILING. THIS WILL ELIMINATE THE POSSIBILITY OF EVAPORATOR VIBRATION.

ADVANCED TEMPERATURE CONTROL

A T C 8 SERIES – SPLIT SYSTEM

(2011)

TWO MAJOR COMPONENT PARTS, THE CONDENSER SECTION AND THE EVAPORATOR SECTION

REINFORCEMENT REQUIRED FOR THE CONDENSER AND THE EVAPORATOR SECTION

CONDENSER -35 3/8" WIDE X 25" DEEP X 9 3/4" HIGH
-WEIGHT 125 LBS.

EVAPORATOR -25" WIDE X 21 7/8" DEEP X 5 1/4" HIGH
-WEIGHT 25 LBS.

NOTE:

THE A.T.C 8 SERIES EVAPORATOR IS DESIGNED TO BE CEILING MOUNTED ONLY.

ADVANCED TEMPERATURE CONTROL

SERIES 8 SPECIFICATIONS

DRIVE SYSTEM

D.C MOTOR

ELECTRICAL SYSTEM

VOLTAGE
BATTERY

12 VDC
TRUCK

ELECTRICAL LOADS

AMPS

.75 H.P DC MOTOR
COMPRESSOR CLUTCH
CONDENSER FAN MOTORS
EVAPORATOR FAN MOTOR
CONTROL CIRCUIT

58.0 D.C
2.6 D.C
7.2 D.C
6.3 D.C
0.5 D.C

REFRIGERATION SYSTEM

COMPRESSOR

MED TEMP

LOW TEMP

OVER THE ROAD

TM 08

N/A

DEFROST

MED TEMP

LOW TEMP

OVER THE ROAD

OFF-CYCLE

N/A

ADVANCED TEMPERATURE CONTROL

SERIES 8 SPECIFICATIONS

REFRIGERATION SYSTEM

<u>REFRIGERANT CHARGE</u>	<u>OVER THE ROAD</u>	<u>WITH STANDBY</u>
	2.0 LBS *	N/A
<u>REFRIGERANT OIL CHARGE</u>	<u>TM 08</u>	<u>WITH STANDBY</u>
	6 OZ	N/A

NOTE: ADDITIONAL OIL TO BE ADDED TO THE SYSTEM.
(MED TEMP 2 OZ)

NOTE: * ADDITIONAL REFRIGERANT AND OIL MAY BE REQUIRED IF
HOSE RUNS ARE LONGER THEN STANDARD.

<u>CONTROL SPECIFICATIONS</u>	<u>CUT IN</u>	<u>CUT OUT</u>
LOW PRESSURE SWITCH	20 PSIG	5 PSIG
HIGH PRESSURE SWITCH	200 PSIG	300 PSIG
FAN CYCLE CONTROL	170 PSIG	120 PSIG
OFF CYCLE DEFROST (MED TEMP)	38 DEG. F	15 DEG. F
BATTERY LOW VOLTAGE CUTOUT		12 VDC

EVAPORATOR AIR FLOW

500 CFM AT 0" STATIC

C.P.R VALVE

PRESSURE RANGE 38 – 40 PSIG

ADVANCED TEMPERATURE CONTROL

A.T.C 12 SERIES – SPLIT SYSTEM

(2011)

**THREE MAJOR COMPONENT PARTS, CONDENSER SECTION,
EVAPORATOR SECTION AND TRUCK ENGINE DRIVEN
COMPRESSOR MOUNTING SECTION**

**CEILING SUPPORT REQUIRED FOR THE CONDENSER AND
EVAPORATOR SECTION.**

CONDENSER - 35 3/8" WIDE X 22 1/2" DEEP X 9 1/4" HIGH
-WEIGHT 65 LBS.

**CONDENSER
WITH STANDBY** -47 3/8" WIDE X 21" DEEP X 9 3/16" HIGH
-WEIGHT 150 LBS.

EVAPORATOR -38 3/8" WIDE X 23" DEEP X 5 3/4" HIGH
-WEIGHT 30 LBS.

NOTE:

**THE A.T.C 12 SERIES EVAPORATOR IS DESIGNED TO BE
CEILING MOUNTED ONLY.**

ADVANCED TEMPERATURE CONTROL

SERIES 12 SPECIFICATIONS

DRIVE SYSTEM

ENGINE

TRUCK ENGINE

ELECTRICAL SYSTEM

VOLTAGE
BATTERY

12 VDC
TRUCK

ELECTRIC STANDBY SYSTEM

VOLTS/PHASE/HZ

230/1/60
115/1/60

ELECTRICAL LOADS

AMPS

ELECTRIC MOTOR STANDBY 230/1/60
ELECTRIC MOTOR STANDBY 115/1/60
COMPRESSOR CLUTCH (OTR) 12VDC
CONDENSER FAN MOTOR 12VDC
EVAPORATOR FAN MOTORS (EACH) 12VDC
CONTROL CIRCUIT 12VDC

6.9 A.C
13.8 A.C
3.5 D.C
9.0 D.C
6.5 D.C
0.5 D.C

REFRIGERATION SYSTEM

COMPRESSOR

MED TEMP

LOW TEMP

OVER THE ROAD
ELECTRIC STANDBY

TM 15
TM 13

TM 15
TM 13

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2011

ADVANCED TEMPERATURE CONTROL

SERIES 12 SPECIFICATIONS

REFRIGERATION SYSTEM

DEFROST

OVER THE ROAD
ELECTRIC STANDBY

MED TEMP

OFF-CYCLE
OFF-CYCLE

LOW TEMP

HOT GAS
HOT GAS

REFRIGERANT CHARGE

OVER THE ROAD

WITH STANDBY

3.0 LBS *

3.5 LBS *

REFRIGERANT OIL CHARGE

TM 15

TM 13

6 OZ

6 OZ

NOTE: ADDITIONAL OIL TO BE ADDED TO THE SYSTEM
(MED TEMP 6 OZ)

NOTE: * ADDITIONAL REFRIGERANT AND OIL MAY BE REQUIRED IF
HOSE RUNS ARE LONGER THEN STANDARD.

CONTROL SPECIFICATIONS

CUT IN

CUT OUT

LOW PRESSURE SWITCH	20 PSIG	5 PSIG
LOW PRESSURE SWITCH L/T 134A	20 PSIG	5 PSIG
LOW PRESSURE SWITCH L/T 404A	20 PSIG	5 PSIG
HIGH PRESSURE SWITCH	200 PSIG	300 PSIG
HIGH PRESSURE SWITCH 134A	200 PSIG	300 PSIG
HIGH PRESSURE SWITCH 404A	275 PSIG	375 PSIG
FAN CYCLE CONTROL 134A (O.T.R)	225 PSIG	150 PSIG
FAN CYCLE CONTROL 404A (O.T.R)	275 PSIG	190 PSIG
FAN CYCLE CONTROL 134A (E.S.B)	170 PSIG	120 PSIG
FAN CYCLE CONTROL 404A (E.S.B)	170 PSIG	120 PSIG
OFF CYCLE DEFROST (MED TEMP)	38 DEG. F	15 DEG.F
DEFROST TERMINATION (LOW TEMP)	35 DEG. F	42 DEG. F

ADVANCED TEMPERATURE CONTROL

SERIES 12 SPECIFICATIONS

EXPANSION VALVE SUPERHEAT SETTING

AT 25 DEG. F – EVAPORATOR TEMP (MED TEMP) 12 DEG.F

AT 0 DEG. F – EVAPORATOR TEMP (LOW TEMP) 6 DEG. F

EVAPORATOR AIR FLOW

950 CFM AT 0” STATIC

C.P.R VALVE

PRESSURE RANGE 38 – 40 PSIG

ADVANCED TEMPERATURE CONTROL

A.T.C 14 SERIES – SPLIT SYSTEM

(2011)

THREE MAJOR COMPONENT PARTS, AERODYNAMIC CONDENSER SECTION, EVAPORATOR SECTION AND TRUCK DRIVEN COMPRESSOR MOUNTING SECTION

NOTE: OVER THE ROAD ONLY MODELS 14 MA & LA REQUIRE FRONT WALL UPRIGHT SUPPORTS – 36” CENTRE AND A CEILING SUPPORT 24” FROM THE FRONT INTERIOR FINISHED WALL. COMBINED WEIGHT OF CONDENSER AND EVAPORATOR – 136 LBS

NOTE: ELECTRIC STANDBY MODELS 14 MEA & LEA REQUIRE FRONT WALL UPRIGHT SUPPORTS – 18” CENTRE, AND A CEILING SUPPORT 24” FROM THE FRONT INTERIOR FINISHED WALL. COMBINED WEIGHT OF ELECTRIC STANDBY CONDENSER AND EVAPORATOR – 295 LBS

**OTR CONDENSER -36 ¾” WIDE X 15” DEEP X 16” HIGH
- WEIGHT 68 LBS**

**OTR EVAPORATOR -33 7/8” WIDE X 26” DEEP X 11 ½” HIGH
- WEIGHT 68 LBS**

**ELECTRIC STANDBY -36 ¾” WIDE X 10 5/8” DEEP X 16” HIGH
- WEIGHT 226 LBS**

NOTE: THE A.T.C 14 SERIES EVAPORATOR IS DESIGNED TO BE CEILING OR WALL MOUNTED. IF THE EVAPORATOR IS WALL MOUNTED THE FRONT CORNERS OF THE EVAPORATOR MUST BE SUPPORTED FROM THE CEILING. THIS WILL ELIMINATE THE POSSIBILITY OF EVAPORATOR VIBRATION.

ADVANCED TEMPERATURE CONTROL

SERIES 14 SPECIFICATIONS

DRIVE SYSTEM

ENGINE

TRUCK ENGINE

ELECTRICAL SYSTEM

VOLTAGE
BATTERY

12 VDC
TRUCK

ELECTRIC STANDBY SYSTEM

VOLTS/PHASE/HZ

230/1/60
230/3/60
115/1/60

ELECTRICAL LOADS

AMPS

COMPRESSOR STANDBY 230/1/60
COMPRESSOR STANDBY 230/3/60
COMPRESSOR STANDBY 115/1/60
COMPRESSOR CLUTCH (OTR) 12VDC
CONDENSER FAN MOTOR (S) 12VDC
EVAPORATOR FAN MOTOR 12VDC
CONTROL CIRCUIT 12VDC

7.9 A.C
4.6 A.C
12.0 A.C
3.5 D.C
8.0 D.C
8.0 D.C
0.5 D.C

REFRIGERATION SYSTEM

COMPRESSOR

MED TEMP

LOW TEMP

OVER THE ROAD
ELECTRIC STANDBY

TM 16
1HP SEMI-HERMETIC

TM 16

ADVANCED TEMPERATURE CONTROL

SERIES 14 SPECIFICATIONS

REFRIGERATION SYSTEM

DEFROST

OVER THE ROAD
ELECTRIC STANDBY

MED TEMP

OFF-CYCLE
OFF-CYCLE

LOW TEMP

HOT GAS
HOT GAS

REFRIGERANT CHARGE

OVER THE ROAD

WITH STANDBY

4.0 LBS *

4.5 LBS *

REFRIGERANT OIL CHARGE

TM 16

SEMI-HERMETIC

6 OZ

20 OZ

NOTE: ADDITIONAL OIL TO BE ADDED TO THE SYSTEM
(MED TEMP 6 OZ) (LOW TEMP 4 OZ)

NOTE: * ADDITIONAL REFRIGERANT AND OIL MAY BE REQUIRED IF
HOSE RUNS ARE LONGER THEN STANDARD.

CONTROL SPECIFICATIONS

CUT IN

CUT OUT

LOW PRESSURE SWITCH MED TEMP

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 134A

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 404A

20 PSIG

5 PSIG

HIGH PRESSURE SWITCH 134A

200 PSIG

300 PSIG

HIGH PRESSURE SWITCH 404A

275 PSIG

375 PSIG

FAN CYCLE CONTROL 134A

225 PSIG

150 PSIG

FAN CYCLE CONTROL 404A

275 PSIG

190 PSIG

OFF CYCLE DEFROST (MED TEMP)

38 DEG. F

15 DEG. F

DEFROST TERMINATION (LOW TEMP)

35 DEG. F

42 DEG. F

ADVANCED TEMPERATURE CONTROL

SERIES 14 SPECIFICATIONS

EXPANSION VALVE SUPERHEAT SETTING

AT 25 DEG. F – EVAPORATOR TEMP (MED TEMP) 12 DEG. F

AT 0 DEG. F – EVAPORATOR TEMP (LOW TEMP) 6 DEG. F

EVAPORATOR AIR FLOW

700 CFM AT 0” STATIC

C.P.R VALVE

PRESSURE RANGE 38 – 40 PSIG

ADVANCED TEMPERATURE CONTROL

A.T.C 15 SERIES – SPLIT SYSTEM

(2011)

THREE MAJOR COMPONENT PARTS, CONDENSER SECTION, EVAPORATOR SECTION AND TRUCK ENGINE DRIVEN COMPRESSOR MOUNTING SECTION

CEILING SUPPORT REQUIRED FOR THE CONDENSER AND EVAPORATOR SECTION.

CONDENSER -35 3/8” WIDE X 22 1/2” DEEP X 9 1/4” HIGH
-WEIGHT 65 LBS

CONDENSER WITH STANDBY -47 3/8” WIDE X 21” DEEP X 9 3/16” HIGH
-WEIGHT 150 LBS

EVAPORATOR - 33 7/8” WIDE X 26” DEEP X 11 1/2” HIGH
- WEIGHT 68 LBS

NOTE:

THE A.T.C 15 SERIES EVAPORATOR IS DESIGNED TO BE CEILING OR WALL MOUNTED. IF THE EVAPORATOR IS WALL MOUNTED THE FRONT CORNERS OF THE EVAPORATOR MUST BE SUPPORTED FROM THE CEILING. THIS WILL ELIMINATE THE POSSIBILITY OF EVAPORATOR VIBRATION.

ADVANCED TEMPERATURE CONTROL

SERIES 15 SPECIFICATIONS

DRIVE SYSTEM

ENGINE

TRUCK ENGINE

ELECTRICAL SYSTEM

VOLTAGE
BATTERY

12 VDC
TRUCK

ELECTRIC STANDBY SYSTEM

VOLTS/PHASE/HZ

230/1/60
115/1/60

ELECTRICAL LOADS

AMPS

ELECTRIC MOTOR STANDBY 230/1/60
ELECTRIC MOTOR STANDBY 115/1/60
COMPRESSOR CLUTCH (OTR) 12VDC
CONDENSER FAN MOTOR (S) 12VDC
EVAPORATOR FAN MOTOR 12VDC
CONTROL CIRCUIT 12VDC

6.9 A.C
13.8 A.C
3.5 D.C
9.0 D.C
8.0 D.C
0.5 D.C

REFRIGERATION SYSTEM

COMPRESSOR

MED TEMP

LOW TEMP

OVER THE ROAD
ELECTRIC STANDBY

TM 16
TM 13

TM 16
TM 13

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ADVANCED TEMPERATURE CONTROL

SERIES 15 SPECIFICATIONS

REFRIGERATION SYSTEM

DEFROST

OVER THE ROAD
ELECTRIC STANDBY

MED TEMP

OFF-CYCLE
OFF-CYCLE

LOW TEMP

HOT GAS
HOT GAS

REFRIGERANT CHARGE

OVER THE ROAD

WITH STANDBY

3.0 LBS *

3.5 LBS *

REFRIGERANT OIL CHARGE

TM 16

TM 13

6 OZ

6 OZ

NOTE: ADDITIONAL OIL TO BE ADDED TO THE SYSTEM
(MED TEMP 6 OZ) (LOW TEMP 4 OZ)

NOTE: * ADDITIONAL REFRIGERANT AND OIL MAY BE REQUIRED IF
HOSE RUNS ARE LONGER THEN STANDARD.

CONTROL SPECIFICATIONS

CUT IN

CUT OUT

LOW PRESSURE SWITCH MED TEMP

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 134A

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 404A

20 PSIG

5 PSIG

HIGH PRESSURE SWITCH 134A

200 PSIG

300 PSIG

HIGH PRESSURE SWITCH 404A

275 PSIG

375 PSIG

FAN CYCLE CONTROL 134A (O.T.R)

225 PSIG

150 PSIG

FAN CYCLE CONTROL 404A (O.T.R)

275 PSIG

190 PSIG

FAN CYCLE CONTROL 134A (E.S.B)

170 PSIG

120 PSIG

FAN CYCLE CONTROL 404A (E.S.B)

170 PSIG

120 PSIG

OFF CYCLE DEFROST (MED TEMP)

38 DEG. F

15 DEG. F

DEFROST TERMINATION (LOW TEMP)

35 DEG. F

42 DEG.F

ADVANCED TEMPERATURE CONTROL

SERIES 15 SPECIFICATIONS

EXPANSION VALVE SUPERHEAT SETTING

AT 25 DEG. F – EVAPORATOR TEMP (MED TEMP) 12 DEG. F

AT 0 DEG. F – EVAPORATOR TEMP (LOW TEMP) 6 DEG. F

EVAPORATOR AIR FLOW

700 CFM AT 0” STATIC

C.P.R VALVE

PRESSURE RANGE 38 – 40 PSIG

ADVANCED TEMPERATURE CONTROL

A.T.C 16 SERIES – SPLIT SYSTEM

(2011)

THREE MAJOR COMPONENT PARTS, AERODYNAMIC CONDENSER SECTION, EVAPORATOR SECTION AND TRUCK ENGINE DRIVEN COMPRESSOR MOUNTING SECTION

NOTE: OVER THE ROAD ONLY MODELS 16 MA & LA REQUIRE FRONT WALL UPRIGHT SUPPORTS – 46 ¾” CENTRE AND A CEILING SUPPORT 24” FROM THE FRONT INTERIOR FINISHED WALL. COMBINED WEIGHT OF CONDENSER AND EVAPORATOR – 178 LBS

NOTE: ELECTRIC STANDBY MODELS 16 MEA & LEA REQUIRE FRONT WALL UPRIGHT SUPPORTS – 25” CENTRE, AND A CEILING SUPPORT 24” FROM THE FRONT INTERIOR FINISHED WALL. COMBINED WEIGHT OF ELECTRIC STANDBY CONDENSER AND EVAPORATOR – 360 LBS

OTR CONDENSER - 48” WIDE X 15” DEEP X 18” HIGH
- WEIGHT 95 LBS

OTR EVAPORATOR - 39 7/8” WIDE X 26” DEEP X 11 ½” HIGH
- WEIGHT 83 LBS

ELECTRIC STANDBY - 48” WIDE X 14 1/8” DEEP X 18” HIGH
- WEIGHT 280 LBS

NOTE: THE A.T.C 16 SERIES EVAPORATOR IS DESIGNED TO BE CEILING OR WALL MOUNTED. IF THE EVAPORATOR IS WALL MOUNTED THE FRONT CORNERS OF THE EVAPORATOR MUST BE SUPPORTED FROM THE CEILING. THIS WILL ELIMINATE THE POSSIBILITY OF EVAPORATOR VIBRATION.

ADVANCED TEMPERATURE CONTROL

SERIES 16 SPECIFICATIONS

DRIVE SYSTEM

ENGINE

TRUCK ENGINE

ELECTRICAL SYSTEM

**VOLTAGE
BATTERY**

**12 VDC
TRUCK**

ELECTRIC STANDBY SYSTEM

VOLTS/PHASE/HZ

**230/1/60
230/3/60**

ELECTRICAL LOADS

AMPS

**COMPRESSOR STANDBY 230/1/60
COMPRESSOR STANDBY 230/3/60
COMPRESSOR CLUTCH (OTR) 12VDC
CONDENSER FAN MOTOR (S) 12VDC
EVAPORATOR FAN MOTOR (S) 12VDC
CONTROL CIRCUIT 12VDC**

**9.6 A.C
6.6 A.C
3.5 D.C
8.0 D.C
8.0 D.C
0.5 D.C**

REFRIGERATION SYSTEM

COMPRESSOR

MED TEMP

LOW TEMP

**OVER THE ROAD
ELECTRIC STANDBY**

**TM 16
1.5HP SEMI-HERMETIC**

TM 16

ADVANCED TEMPERATURE CONTROL

SERIES 16 SPECIFICATIONS

REFRIGERATION SYSTEM

DEFROST

OVER THE ROAD
ELECTRIC STANDBY

MED TEMP

OFF-CYCLE
OFF-CYCLE

LOW TEMP

HOT GAS
HOT GAS

REFRIGERANT CHARGE

OVER THE ROAD

WITH STANDBY

5.0 LBS *

6.0 LBS *

REFRIGERANT OIL CHARGE

TM 16

SEMI-HERMETIC

6 OZ

20 OZ

NOTE: ADDITIONAL OIL TO BE ADDED TO THE SYSTEM
(MED TEMP 6 OZ) (LOW TEMP 4 OZ)

NOTE: * ADDITIONAL REFRIGERATION AND OIL MAY BE REQUIRED IF
HOSE RUNS ARE LONGER THEN STANDARD.

CONTROL SPECIFICATIONS

CUT IN

CUT OUT

LOW PRESSURE SWITCH MED TEMP

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 134A

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 404A

20 PSIG

5 PSIG

HIGH PRESSURE SWITCH 134A

200 PSIG

300 PSIG

HIGH PRESSURE SWITCH 404A

275 PSIG

375 PSIG

FAN CYCLE CONTROL 134A

225 PSIG

150 PSIG

FAN CYCLE CONTROL 404A

275 PSIG

190 PSIG

OFF CYCLE DEFROST (MED TEMP)

38 DEG. F

15 DEG. F

DEFROST TERMINATION (LOW TEMP)

35 DEG. F

42 DEG.F

ADVANCED TEMPERATURE CONTROL

SERIES 16 SPECIFICATIONS

EXPANSION VALVE SUPERHEAT SETTING

AT 25 DEG. F – EVAPORATOR TEMP (MED TEMP) 12 DEG. F

AT 0 DEG. F – EVAPORATOR TEMP (LOW TEMP) 6 DEG. F

EVAPORATOR AIR FLOW

1400 CFM AT 0” STATIC

C.P.R VALVE

PRESSURE RANGE 38 – 40 PSIG

ADVANCED TEMPERATURE CONTROL

A.T.C 18 SERIES – SPLIT SYSTEM

(2011)

THREE MAJOR COMPONENT PARTS, AERODYNAMIC CONDENSER SECTION, EVAPORATOR SECTION AND TRUCK ENGINE DRIVEN COMPRESSOR MOUNTING SECTION

NOTE: OVER THE ROAD ONLY MODELS 18 MA & LA REQUIRE FRONT WALL UPRIGHT SUPPORTS – 46 ¾” CENTRE AND A CEILING SUPPORT 24” FROM THE FRONT INTERIOR FINISHED WALL. COMBINED WEIGHT OF CONDENSER AND EVAPORATOR – 197 LBS

NOTE: ELECTRIC STANDBY MODELS 18 MEA & LEA REQUIRE FRONT WALL UPRIGHT SUPPORTS – 25” CENTRE, AND A CEILING SUPPORT 24” FROM THE FRONT INTERIOR FINISHED WALL. COMBINED WEIGHT OF ELECTRIC STANDBY CONDENSER AND EVAPORATOR – 381 LBS

**OTR CONDENSER - 48” WIDE X 15” DEEP X 18” HIGH
-WEIGHT 95 LBS**

**OTR EVAPORATOR - 50 7/8” WIDE X 26” DEEP X 13 1/2” HIGH
-WEIGHT 102 LBS**

**ELECTRIC STANDBY - 48” WIDE X 14 1/8” DEEP X 18” HIGH
-WEIGHT 279 LBS**

NOTE: THE A.T.C 18 SERIES EVAPORATOR IS DESIGNED TO BE CEILING OR WALL MOUNTED. IF THE EVAPORATOR IS WALL MOUNTED THE FRONT CORNERS OF THE EVAPORATOR MUST BE SUPPORTED FROM THE CEILING. THIS WILL ELIMINATE THE POSSIBILITY OF EVAPORATOR VIBRATION.

ADVANCED TEMPERATURE CONTROL

SERIES 18 SPECIFICATIONS

DRIVE SYSTEM

ENGINE

TRUCK ENGINE

ELECTRICAL SYSTEM

**VOLTAGE
BATTERY**

**12 VDC
TRUCK**

ELECTRIC STANDBY SYSTEM

VOLTS/PHASE/HZ

**230/1/60
230/3/60**

ELECTRICAL LOADS

AMPS

**COMPRESSOR STANDBY 230/1/60
COMPRESSOR STANDBY 230/3/60
COMPRESSOR CLUTCH (OTR) 12VDC
CONDENSER FAN MOTOR (S) 12VDC
EVAPORATOR FAN MOTOR (S) 12VDC
CONTROL CIRCUIT 12VDC**

**9.6 A.C
6.6 A.C
3.5 D.C
8.0 D.C
8.0 D.C
0.5 D.C**

REFRIGERATION SYSTEM

COMPRESSOR

MED TEMP

LOW TEMP

**OVER THE ROAD
ELECTRIC STANDBY**

**TM 16
1.5 SEMI-HERMETIC**

TM 16

ADVANCED TEMPERATURE CONTROL

SERIES 18 SPECIFICATIONS

REFRIGERATION SYSTEM

DEFROST

OVER THE ROAD
ELECTRIC STANDBY

MED TEMP

OFF-CYCLE
OFF-CYCLE

LOW TEMP

HOT GAS
HOT GAS

REFRIGERANT CHARGE

OVER THE ROAD

WITH STANDBY

5.0 LBS *

6.0 LBS *

REFRIGERANT OIL CHARGE

TM 16

SEMI-HERMETIC

6 OZ

20 OZ

NOTE: ADDITIONAL OIL TO BE ADDED TO THE SYSTEM
(MED TEMP 6 OZ) (LOW TEMP 4 OZ)

NOTE: * ADDITIONAL REFRIGERANT AND OIL MAY BE REQUIRED IF
HOSE RUNS ARE LONGER THEN STANDARD.

CONTROL SPECIFICATIONS

CUT IN

CUT OUT

LOW PRESSURE SWITCH MED TEMP

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 134A

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 404A

20 PSIG

5 PSIG

HIGH PRESSURE SWITCH 134A

200 PSIG

300 PSIG

HIGH PRESSURE SWITCH 404A

275 PSIG

375 PSIG

FAN CYCLE CONTROL 134A

225 PSIG

150 PSIG

FAN CYCLE CONTROL 404A

275 PSIG

190 PSIG

OFF CYCLE DEFROST (MED TEMP)

38 DEG. F

15 DEG. F

DEFROST TERMINATION (LOW TEMP)

35 DEG. F

42 DEG. F

ADVANCED TEMPERATURE CONTROL

SERIES 18 SPECIFICATIONS

EXPANSION VALVE SUPERHEAT SETTING

AT 25 DEG. F – EVAPORATOR TEMP (MED TEMP) 12 DEG.F

AT 0 DEG.F – EVAPORATOR TEMP (LOW TEMP) 6 DEG. F

EVAPORATOR AIR FLOW

1500 CFM AT 0” STATIC

C.P.R VALVE

PRESSURE RANGE 38 – 40 PSIG

ADVANCED TEMPERATURE CONTROL

A.T.C 20 SERIES – SPLIT SYSTEM

(2011)

THREE MAJOR COMPONENT PARTS, AERODYNAMIC CONDENSER SECTION, EVAPORATOR SECTION AND TRUCK ENGINE DRIVEN COMPRESSOR MOUNTING SECTION

NOTE: OVER THE ROAD ONLY MODELS 20 MA & LA REQUIRE FRONT WALL UPRIGHT SUPPORTS – 46 ¾” CENTRE AND A CEILING SUPPORT 24” FROM THE FRONT INTERIOR FINISHED WALL. COMBINED WEIGHT OF THE CONDENSER AND EVAPORATOR – 210 LBS

NOTE: ELECTRIC STANDBY MODELS 20 MEA & LEA REQUIRE FRONT WALL UPRIGHT SUPPORTS – 25” CENTRE, AND A CEILING SUPPORT 24” FROM THE FRONT INTERIOR FINISHED WALL. COMBINED WEIGHT OF THE ELECTRIC STANDBY, CONDENSER AND EVAPORATOR – 466 LBS

OTR CONDENSER - 48” WIDE X 15” DEEP X 18” HIGH
- WEIGHT 95 LBS

OTR EVAPORATOR - 50 7/8” WIDE X 26” DEEP X 13 ½” HIGH
-WEIGHT 115 LBS

ELECTRIC STANDBY - 48” WIDE X 14 1/8” DEEP X 18” HIGH
- WEIGHT 351 LBS

NOTE: THE A.T.C 20 SERIES EVAPORATOR IS DESIGNED TO BE CEILING OR WALL MOUNTED. IF THE EVAPORATOR IS WALL MOUNTED THE FRONT CORNERS OF THE EVAPORATOR MUST BE SUPPORTED FROM THE CEILING. THIS WILL ELIMINATE THE POSSIBILITY OF EVAPORATOR VIBRATION.

ADVANCED TEMPERATURE CONTROL

SERIES 20 SPECIFICATION

DRIVE SYSTEM

ENGINE

TRUCK ENGINE

ELECTRICAL SYSTEM

VOLTAGE
BATTERY

12 VDC
TRUCK

ELECTRIC STANDBY SYSTEM

VOLTS/PHASE/HZ

230/1/60
230/3/60

ELECTRICAL LOADS

AMPS

COMPRESSOR STANDBY 230/1/60
COMPRESSOR STANDBY 230/3/60
COMPRESSOR CLUTCH (OTR) 12VDC
CONDENSER FAN MOTOR (S) 12VDC
EVAPORATOR FAN MOTOR (S) 12VDC
CONTROL CIRCUIT 12VDC

14.7 A.C
7.4 A.C
3.5 D.C
8.0 D.C
8.0 D.C
0.5 D.C

REFRIGERATION SYSTEM

COMPRESSOR

MED TEMP

LOW TEMP

OVER THE ROAD
ELECTRIC STANDBY

TM 16
2 HP SEMI-HERMETIC

TM 16

ADVANCED TEMPERATURE CONTROL

SERIES 20 SPECIFICATIONS

REFRIGERATION SYSTEM

DEFROST

OVER THE ROAD
ELECTRIC STANDBY

MED TEMP

OFF-CYCLE
OFF-CYCLE

LOW TEMP

HOT GAS
HOT GAS

REFRIGERANT CHARGE

OVER THE ROAD

WITH STANDBY

5.0 LBS *

6.0 LBS *

REFRIGERANT OIL CHARGE

TM 16

SEMI-HERMETIC

6 OZ

20 OZ

NOTE: ADDITIONAL OIL TO BE ADDED TO THE SYSTEM
(MED TEMP 6 OZ) (LOW TEMP 4 OZ)

NOTE: * ADDITIONAL REFRIGERANT AND OIL MAY BE REQUIRED IF
HOSE RUNS ARE LONGER THEN STANDARD.

CONTROL SPECIFICATIONS

CUT IN

CUT OUT

LOW PRESSURE SWITCH MED TEMP

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 134A

20 PSIG

5 PSIG

LOW PRESSURE SWITCH LOW TEMP 404A

20 PSIG

5 PSIG

HIGH PRESSURE SWITCH 134A

200 PSIG

300 PSIG

HIGH PRESSURE SWITCH 404A

275 PSIG

375 PSIG

FAN CYCLE CONTROL 134A

225 PSIG

150 PSIG

FAN CYCLE CONTROL 404A

275 PSIG

190 PSIG

OFF CYCLE DEFROST (MED TEMP)

38 DEG. F

15 DEG. F

DEFROST TERMINATION (LOW TEMP)

35 DEG. F

42 DEG. F

ADVANCED TEMPERATURE CONTROL

SERIES 20 SPECIFICATIONS

EXPANSION VALVE SUPERHEAT SETTING

AT 25 DEG. F – EVAPORATOR TEMP (MED TEMP) 12 DEG. F

AT 0 DEG. F – EVAPORATOR TEMP (LOW TEMP) 6 DEG. F

EVAPORATOR AIR FLOW

2200 CFM AT 0” STATIC

C.P.R VALVE

PRESSURE RANGE 38 – 40 PSIG