



**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 217/8" 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

#### REFRIGERANT CHARGE

#### OVER THE ROAD

#### WITH STANDBY

**REFER TO RECOMMENDED CHARGE LIST\***

#### REFRIGERANT OIL CHARGE

#### TM 08

#### WITH STANDBY

**REFER TO RECOMMENDED CHARGE LIST**

**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.**

### CONTROL SPECIFICATIONS

#### CUT IN

#### CUT OUT

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

**REFER TO RECOMMENDED CHARGE LIST\***

#### REFRIGERANT OIL CHARGE

#### TM 15

#### TM 13

**REFER TO RECOMMENDED CHARGE LIST**

**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

**REFER TO RECOMMENDED CHARGE LIST\***

#### REFRIGERANT OIL CHARGE

#### TM 16

#### SEMI-HERMETIC

**REFER TO RECOMMENDED CHARGE LIST**

**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

**REFER TO RECOMMENDED CHARGE LIST\***

#### REFRIGERANT OIL CHARGE

#### TM 16

#### TM 13

**REFER TO RECOMMENDED CHARGE LIST**

**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**

### **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

**REFER TO RECOMMENDED CHARGE LIST\***

#### REFRIGERANT OIL CHARGE

#### TM 16

#### SEMI-HERMETIC

**REFER TO RECOMMENDED CHARGE LIST**

**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

**REFER TO RECOMMENDED CHARGE LIST\***

#### REFRIGERANT OIL CHARGE

#### TM 16

#### SEMI-HERMETIC

**REFER TO RECOMMENDED CHARGE LIST**

**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**