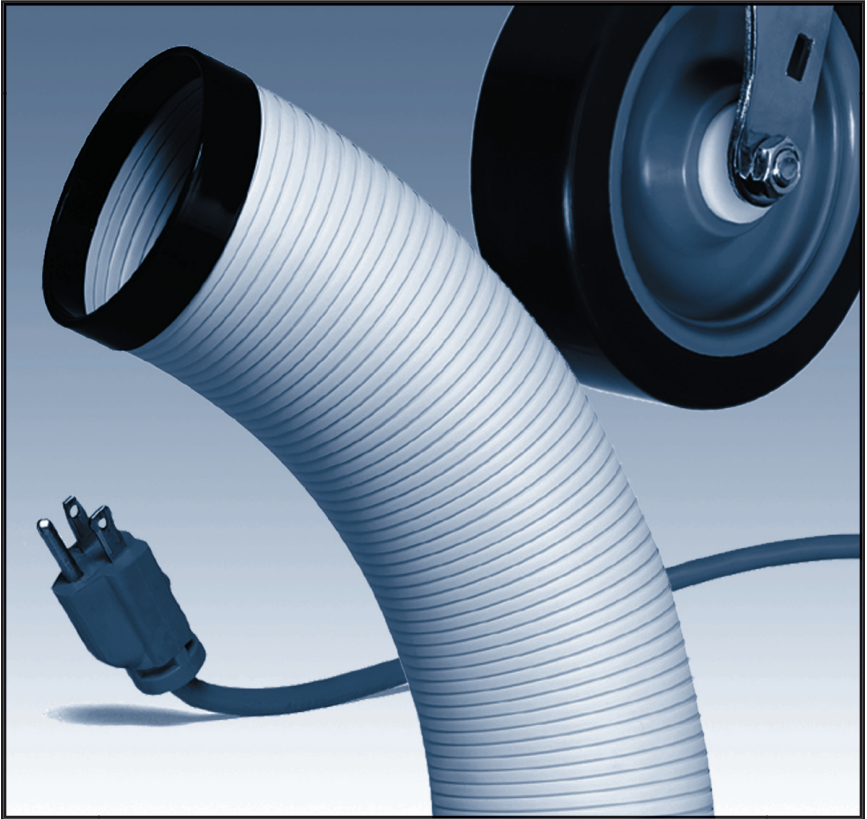


OPERATION **MANUAL**

OFFICE PRO 36



READ THIS MANUAL CAREFULLY FOR INSTRUCTIONS ON CORRECT INSTALLATION AND USAGE, AND READ ALL SAFEGUARDS.



MOVINCOOL
THE PORTABLE SPOT COOLING SOLUTION

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FOREWORD

Congratulations on purchasing the MovinCool portable air conditioner.

This manual explains how to assemble, install and operate the MovinCool Office Pro 36 portable air conditioning unit. Please read this operation manual thoroughly to familiarize yourself with the features of the unit and to ensure years of reliable operation. You may also find it useful to keep this operation manual on hand for reference.

Components and/or procedures are subject to change without prior notice.

Definition of Terms

⚠WARNING: Describes precautions that should be observed in order to prevent injury to the user during installation or unit operation.

⚠CAUTION: Describes precautions that should be observed in order to prevent damage to the unit or its components, which may occur during installation or unit operation if sufficient care is not taken.

NOTE: Provides additional information that facilitates installation or unit operation.

GENERAL WARNINGS & CAUTIONS

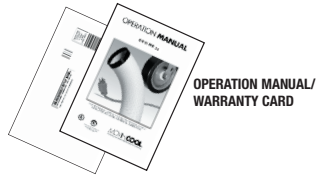
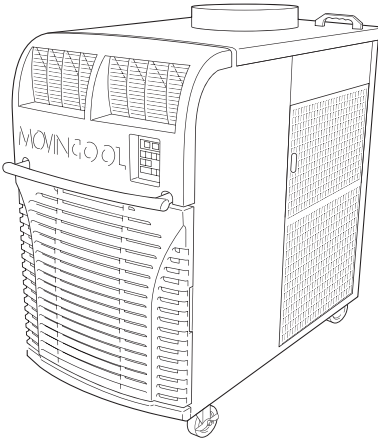
- All electrical work, if necessary, should only be performed by qualified electrical personnel. Repair to electrical components by non-certified technicians may result in personal injury and/or damage to the unit. All electrical components replaced must be genuine MovinCool parts, purchased from an authorized reseller.
- The proper electrical outlet for MovinCool units must be equipped with a UL approved ground-fault breaker to prevent electrical shock from the unit.
- The Office Pro 36 is equipped with a six (6) foot (1.8 meter) AFCI power cord. If replacement, fixed location (hard wired) or power cord lengthening (extension cord) cords are required, contact your reseller or a qualified licensed electrician for approved replacement methods.
- Never fold, or place heavy objects on the power cord. This could result in damage to the power cord causing electrical shock or fire.
- Do not place water or any other liquid on the unit. This can cause damage to the unit and increase the risk of electrical shock.
- Do not sit or stand on the unit.

INVENTORY

After unpacking your MovinCool unit, please check to make sure you have the following items:

- Office Pro 36 MovinCool Unit (1)
- Operation Manual/Warranty Card (1)

NOTE: If any of these items were not included in the box or appear damaged, please contact your MovinCool reseller for replacement.



INSTALLATION

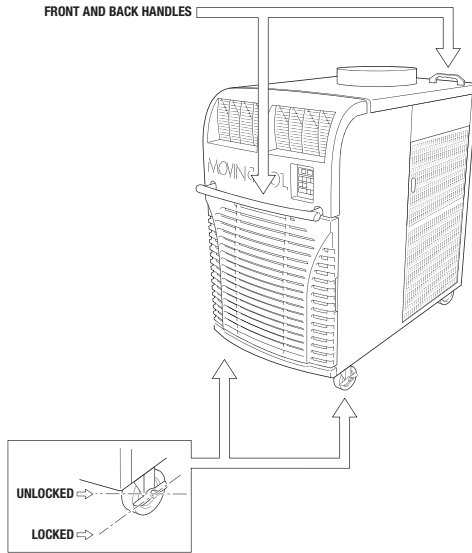
Choosing an Installation Site

⚠CAUTION: Following are some precautions to consider before choosing your installation site. Please review carefully as improper installation may result in personal injury or damage to the unit.

- Do not use the unit in areas where leakage of flammable gas may occur.
- Do not use the unit in areas where it will be exposed to rain or water.
- Do not use the unit in an atmosphere of excessively corrosive gas or vapor.
- Do not use in areas where the temperature is outside the allowable operating range.
- Do not install the unit in sloping areas. The unit may move or topple over even if the casters are set to the LOCKED position.
- Install the unit in areas that can withstand the weight of the unit. The Office Pro 36 weighs approximately 440 lbs (200 kg).
- Allow 24 inches (610 mm) of unobstructed airflow for both air inlets and outlets.
- Do not use the unit above the following conditions: 95° F (35 °C)

Moving the Unit

Unlock the casters and push the MovinCool unit, using the side handles, to a flat, level surface and set the casters back to the LOCKED position.



Plugging in the Unit

- Check the prongs and surface of the power cord plug for dust/dirt. If dust and/or dirt are present, wipe off with a clean, dry cloth.
- Check the power cord, plug and prongs for damage or excess play. If any damage or excess play is found, contact your MovinCool reseller for repair.
- Fully insert plug into the A/C outlet.

⚠WARNING:

- **If the power cord or plug is damaged, repair should only be performed by qualified electrical personnel.**
- **Do not connect/disconnect the power cord or attempt to operate buttons with wet hands. This could result in electrical shock.**

⚠CAUTION: The AC outlet (208/230 VAC Single Phase, 60Hz) needs to be rated at 30A or higher. Do not share the outlet with any other instrument or equipment.

NOTE:

- **Make sure the AC outlet is free of dirt, dust, oil, water, or any other foreign matter.**
- **The Office Pro 36 model is equipped with an approved NEMA plug configuration (6-30). The appropriate outlet must be used for this plug type.**

FEATURES

OP36 Features

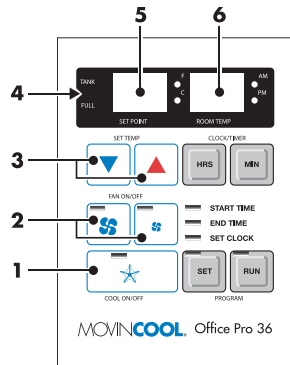
- An electronic control panel which allows the user to control the unit's operation easily.
- Dual fan speeds (either High or Low) in both COOL and Fan Only modes.
- A digital display that indicates the Temperature SET POINT (either Fahrenheit or Celsius) in which the COOL Mode will operate. This is also the temperature the unit will try to maintain. The Temperature SET POINT can be adjusted by the SET TEMP buttons (▼/▲). (65°F-95°F)
- A condensate drain TANK FULL indicator display (LED).
- An automatic restart feature when the power is lost and regained. The unit will return to the operating mode it was in prior to the loss of power. Any preset program will be retained in the memory in the event power loss occurs.
- A programmable Clock/Timer function. This allows the user to program a specific time of day that the unit will begin to operate/start and turn off/end.
- A 2-digit room temperature display.
- Two condensate tanks with condensate float

OPERATION

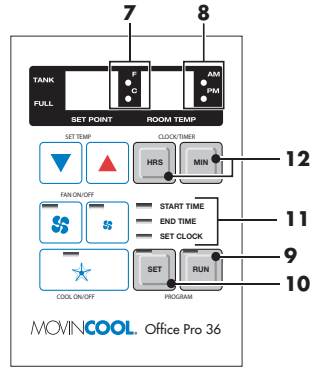
Control Panel

Before operating the unit, it is important to familiarize yourself with the basic controls located on the control panel.

1. COOL ON/OFF Button - Activates/deactivates the COOL mode/turns the unit off.
2. FAN ON/OFF Buttons - Activates/deactivates the HIGH or LOW fan mode.
3. SET TEMP Buttons (▼/▲) - Increases/decreases the temperature set point.
4. TANK FULL LED - Flashes when the drain tank is full.
5. SET POINT Display - Indicates the current temperature set point; also used to display clock hour when programming.
6. ROOM TEMP Display - Indicates the current room temperature; also used to display the clock minutes when programming.



7. Temperature Scale LED - Illuminates to indicate the current temperatures being displayed are either in °C or °F; also used to display the clock when programming.
8. **AM/PM** LED - Illuminates to indicate AM or PM time of day.
9. Program **RUN** Button - Activates/deactivates a program.
10. Program **SET** Button - Allows the user to program the unit or check the current program.
11. **START TIME LED, END TIME LED, SET CLOCK LED** - Illuminates to indicate the current step that is being programmed into the unit.
12. **CLOCK/TIMER** Buttons - Allows the user to set the clock and program the start and end time of operation.



Operating in COOL Mode

- ① The unit can be operated in COOL mode by pressing the COOL ON/OFF button (LED illuminates).

NOTE: In COOL mode the unit can only be turned off by pressing the “COOL ON/OFF” button again, not by pressing the fan buttons.

- ② Change the fan speed by pressing the HIGH or LOW fan buttons.
- ③ Change the temperature set point by pressing the SET TEMP buttons (▼/▲).

NOTE: When turning the unit on, the set point and fan speed are determined by the last operating mode (program mode not included).

Operating in Fan Only Mode

- ① The unit can also be operated in Fan Only mode by pressing either the HIGH or LOW fan buttons (LED illuminates).
- ② The unit can then be turned off by pressing the fan speed button that is illuminated.

Changing from Fan Only Mode to COOL Mode

- ① The COOL mode can be activated while the unit is operating in Fan Only mode. To do this, simply press the COOL ON/OFF button (LED illuminates).

NOTE: The Fan Only mode will not operate after the COOL mode has been activated. After the COOL mode has been activated, the unit cannot be turned off by pressing the fan buttons. The COOL ON/OFF button must be pressed.

How to Set a Program

① **Setting a START TIME**

Press the Program SET button. The Program SET button and START TIME LEDs will illuminate. Press the HRS and MIN buttons to set the START TIME.

② **Setting an END TIME**

Press the Program SET button until the END TIME LED illuminates. Press the HRS and MIN buttons to set the END TIME.

③ **Setting the CLOCK TIME**

Press the Program SET button until the SET CLOCK LED illuminates. Press the HRS and MIN buttons to set the current clock time into the unit.

NOTE: The AM/PM LED will change with the HRS button.

④ **Programming the Temperature SET POINT**

Press the Program SET button until the current SET POINT temperature display begins to flash on and off. Select a new desired SET POINT temperature by pressing the SET TEMP buttons (▼/▲).

⑤ **Programming the Fan Speed**

Press the Program SET button until one of the Fan Speed button LEDs (High/Low) begin to flash. This is the current programmed Fan Speed. To change the programmed Fan Speed, simply press the other Fan Speed button.

⑥ **Exiting the Program SET Function**

After changing any of the above settings, continue pressing the Program SET button until the Program SET button LED turns off. The unit will then return to the previous mode.

⑦ **Activating/Deactivating a Preset Program**

Press the Program RUN button to activate/deactivate a preset program. The Program RUN LED will illuminate when activated.

NOTE:

- ***The unit will return to the previous mode if a program is turned off while it is running.***
- ***The Program RUN LED flashes while a program is running. It is illuminated continuously when the program mode is activated.***
- ***While a program is running, the program can only be stopped by pressing the Program RUN button. All other buttons are inoperable when a program is running.***
- ***The unit returns to the previous mode at the end of a program.***
- ***The unit does not have to be running to set a program.***
- ***During programming, the unit returns to the previous mode if no activity occurs within approximately 35 seconds.***

Operating Modes

Office Pro 36 operates in 2 modes, FAN Only and COOL. When in FAN Only mode, the unit circulates the surrounding air. When in COOL mode, the compressor is operational and cool air is circulated.

- **COOL Mode**

Office Pro 36 will operate in FAN Only mode for approximately 120 seconds before the compressor engages. (Time delay setting is 120 ±15 seconds.)

- **Temperature Control**

The room temperature thermistor allows the unit to switch automatically between COOL and FAN Only modes. This is dependent upon inlet air temperature versus SET POINT temperature.

- **Fan Mode Control DIP Switch**

The Fan Mode Control DIP Switch determines whether the FAN will continue to operate or stop when the compressor cycles off. (SET POINT temperature equals inlet air or room temperature.) The unit has been preset at the factory for continuous fan operation.

- **Temperature Scale Display DIP Switch**

The Temperature Scale Display DIP Switch changes the temperature(s) that are displayed to either °C or °F. The unit has been preset from the factory to display the temperature(s) in °F.

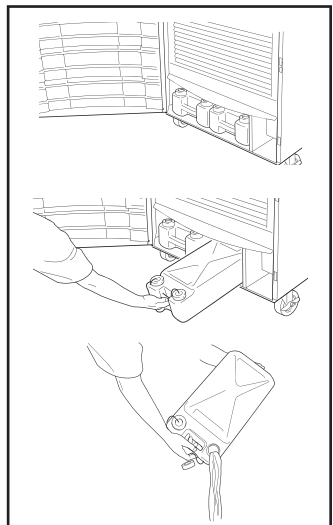
NOTE: If you wish to change the fan mode operation (COOL ⇒ OPERATE to COOL ⇒ STOP), and/or the Temperature Scale Display (°F to °C), contact your Movin-Cool reseller.

Emptying the Drain Tank (If equipped)

During COOL mode, condensate will accumulate in the drain tank. When the drain tank becomes full, the FULL TANK LED will flash and the unit will shut off automatically.

NOTE: If you want to empty the drain tank, while the unit is in operation, press the COOL ON/OFF button to turn the unit off. If a program is running, you must first press the Program RUN button.

- ① Open the front panel.
- ② Pull the drain tank from the unit.
- ③ Remove the cap and empty the drain tank.
- ④ Replace the cap and return the drain tank to the unit.
- ⑤ Close the drain tank lid.
- ⑥ If the Program RUN LED is flashing, press the COOL ON/OFF button to continue running the program. If the Program RUN LED is illuminated continuously, no further steps are necessary. If no program exists or the program was deactivated, press the COOL ON/OFF button to restart the unit.



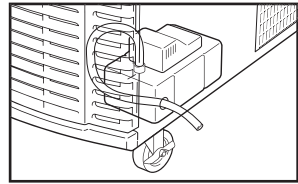
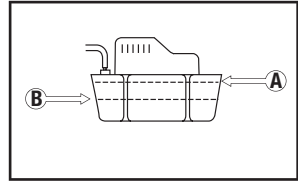
Drain Pump (Optional)

A drain pump allows continuous operation and eliminates the need for drain tanks.

- When the water collects to level (A) in the pump reservoir, the drain pump begins to operate and discharges the water.
- When the water level drops below level (B), the drain pump will stop.

NOTE:

- *If for any reason the water level exceeds that of level (A) in the pump reservoir, an overflow Drain Switch will stop the compressor operation.*
- *If the Fan Mode Control DIP Switch (see pg.5) has been set operate from the STOP position, the Fan will also turn off while the drain pump is discharging water.*



DAILY INSPECTION & MAINTENANCE

Emptying the Drain Tank

To empty the drain tank, refer to instructions, page 14.

Cleaning the Air Filters

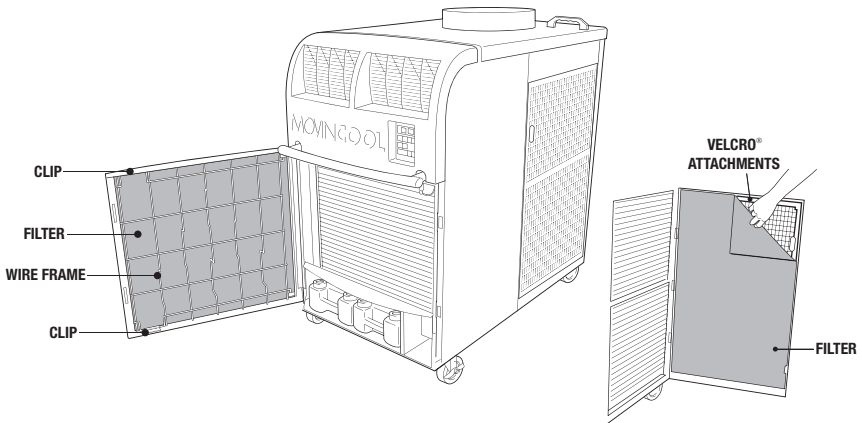
Clean the air filters once a week. If the unit is used in a dusty environment, more frequent cleaning may be required.

A dirty air filter reduces air output resulting in a decrease of the cooling capacity.

Filter Removal Method

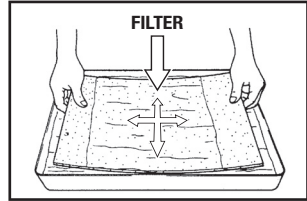
- ① Turn the unit off, by pressing the COOL ON/OFF button. If a program is running, you must first press the Program RUN button.
- ② Remove the 2 air filters.

NOTE: To remove the filters from the Office Pro 36, open the front panel and side panel filter doors. Unclip the wire frame and remove filter.



Cleaning Method

- ① Remove dust from the element with a vacuum cleaner, or rinse in cold or lukewarm water. If the element is extremely dirty, wash with a neutral detergent.
- ② After the element has been cleaned, rinse with clean running water, allow to dry, then reinstall.



In-Season/Off-Season Inspection & Maintenance

In-Season

- ① Check the prongs and surface of the power cord plug for dust and/or dirt. If dust and/or dirt are present, wipe off with a clean, dry cloth.
- ② Check the power cord, plug and prongs for damage or excess play. If any damage or excess play is found, contact your MovinCool reseller for repair.
- ③ Check the air filters and drain tank.
- ④ Clean the outside of the unit(s) with a damp cloth or mild nonabrasive cleaner.

Off-Season

- ① Operate the unit in Fan Only mode for 8 hours.

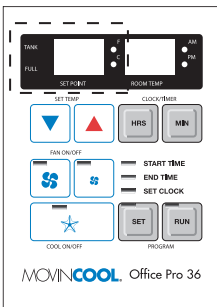
Note: Operation is necessary to dry out the inside of the unit.

- ② Disconnect the power cord from the AC outlet.
- ③ Check the prongs and surface of the power cord plug for dust and/or dirt. If dust and/or dirt are present, wipe off with a clean, dry cloth.
- ④ Check the power cord, plug and prongs for damage or excess play. If any damage or excess play is found, contact your MovinCool reseller for repair.
- ⑤ Clean the air filters.
- ⑥ Empty all water from the drain tank.

TROUBLESHOOTING

Office Pro 36 Self-Diagnostic Codes

Self-Diagnostic Codes will be displayed on the Control Board under the following conditions:



- dF When the evaporator freestat disengages the compressor.
- FL When the drain tank switch shuts off the unit (**FULL TANK LED** flashes).
- AS When unit disengages the compressor while the condensate pump is discharging water.
- HP When the high pressure switch disengages the compressor.
- LO Lowest temperature set point.

Note: If AS does not disappear from display, contact your distributor.

Check the following points before calling a qualified technician.

SYMPTOM	POSSIBLE CAUSE	REMEDY
<i>Unit does not operate</i>	① Ground fault breaker tripped ② Drain tank is full (FULL TANK LED will be flashing)	Reset breaker Empty the drain tank
<i>Insufficient cooling</i>	① Dirty/blocked air filters ② Air inlet/outlet blocked ③ Improper temperature setting	Clean air filters Clear air inlet/outlet Set to desired position

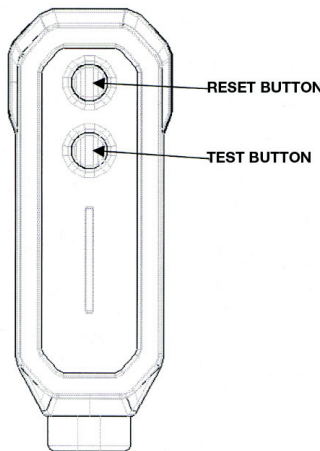
If symptoms persist after the above actions have been taken, turn the unit off, disconnect the power cord plug and contact your MovinCool reseller.

AFCI Power Cord Manual

⚠WARNING: The AFCI device is a non-serviceable part. Attempting to open the device may expose the user to hazardous electric shock, and voids any warranties and performance claims. Manufacturer's liability is limited to the replacement of the device.

⚠CAUTION:

- 1. Read manual for proper use and handling of this device.**
- 2. Press "RESET" button before starting the A/C unit. Press "TEST" to check function then "RESET" again. Start the A/C unit.**
- 3. Do not immerse in water**
- 4. This device must only be plugged on appropriate wall outlet.**
- 5. In the event that this device trip, the cause of the malfunction should be corrected first before further use.**
- 6. Using the device beyond recommended voltage poses risk to users.**



TECHNICAL SPECIFICATIONS

ITEM/FEATURES	OFFICE PRO 36
Rating Conditions dry bulb wet bulb humidity	95° F (35° C) 83° F (28.2° C) 60%
Specifications power frequency line voltage power consumption current consumption power factor starting current power wiring	60Hz single phase 208/230V 4.4 Kw 19.7 Amps 99% 88A 10 (3-core) AWG
Cooling Unit cooling capability cooling system	9,070 Kcal/hr 36,000 BTU/hr direct expansion
Blower type of fan air volume: evaporator (high speed) evaporator (low speed) condenser (high speed) evaporator (low speed) motor output: evaporator (high) condenser (high)	centrifugal fan 999 ft ³ /min (1682 m ³ /h) 825 ft ³ /min (1402 m ³ /h) 1490 ft ³ /min (2532 m ³ /h) 1060 ft ³ /min (1801 m ³ /h) 0.21 Kw 0.33 Kw
Compressor type output refrigerant type refrigerant capacity	hermetic scroll 2.1 Kw R-22 2.4 lbs (3.1 kg)
Safety Devices compressor overload protector fan motor protector anti-freezing thermistor full drain tank switch automatic restart (power interruption) compressor time delay program	included included included included included included
Dimensions & Weight W x D x H (in) W x D x H (mm) weight (lbs/kg)	30" x 44" x 52" 760 x 1117.6 x 1321 540/245
Operating Conditions inlet air (relative humidity)	95° F (35° C), ≤ 60% 65° F (18.3° C), ≥ 50%
Control Device temperature control programmable timer two speed fan	included included included



LIMITED WARRANTY

DENSO SALES CALIFORNIA, INC. (“DENSO”) warrants its MOVINCOOL Products only to the extent stated in its official written warranties. Unless otherwise specifically provided in writing by DENSO, DENSO warrants to end-user that the Products shall be free of defects in materials or workmanship and will function in accordance with DENSO’s published specifications under ordinary intended use and service for a period of twelve (12) months after delivery to the end-user; provided, however, in the case of the compressor element of the Products such warranty shall be for a period of thirty six (36) months after delivery to the end-user. DENSO shall, at its sole option, repair or replace any defective Product covered by this warranty. Such remedy shall be end-user’s sole remedy with respect to any particular defect in the Products.

This warranty does not cover defects or malfunctions which result from causes beyond DENSO’s control, including, without limitation, (i) unusual physical or electrical stress; (ii) accident, neglect, abuse, misuse or other abnormal use; (iii) failure to perform routine maintenance in accordance with DENSO’S recommended procedures; (iv) normal wear and tear; (v) repairs or attempted repairs by an unauthorized person; (vi) modifications or alterations to the Products; (vii) use with supplies or devices not supplied or approved by DENSO; or (viii) improper servicing. This warranty shall extend only to the original end-user and shall be void if any labels or other identifying marks permanently affixed to Products when shipped by DENSO are removed, altered, defaced or obliterated.

The aforesaid warranty is the only warranty made by DENSO with respect to the Products and is in lieu of all obligations or liabilities on the part of DENSO for damages arising out of or in connection with the sale, use or performance of the Products, including, without limitation, any lost profits or any other consequential, incidental, special or exemplary damages of any kind. DENSO DISCLAIMS ALL OTHER WARRANTIES WITH REGARD TO THE PRODUCTS, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN.

PURCHASE DATE: _____

SERIAL NUMBER: _____

DENSO

DENSO SALES CALIFORNIA, INC.

3900 Via Oro Avenue

Long Beach CA 90810-1868

800-264-9573 / 310-834-6352

www.movincool.com

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