

OPERATION MANUAL

OFFICE PRO 12 / OFFICE PRO 18 / OFFICE PRO 24

Unit Serial Number Range: 0711XXXX### to Present
(From July 2011 to Present)



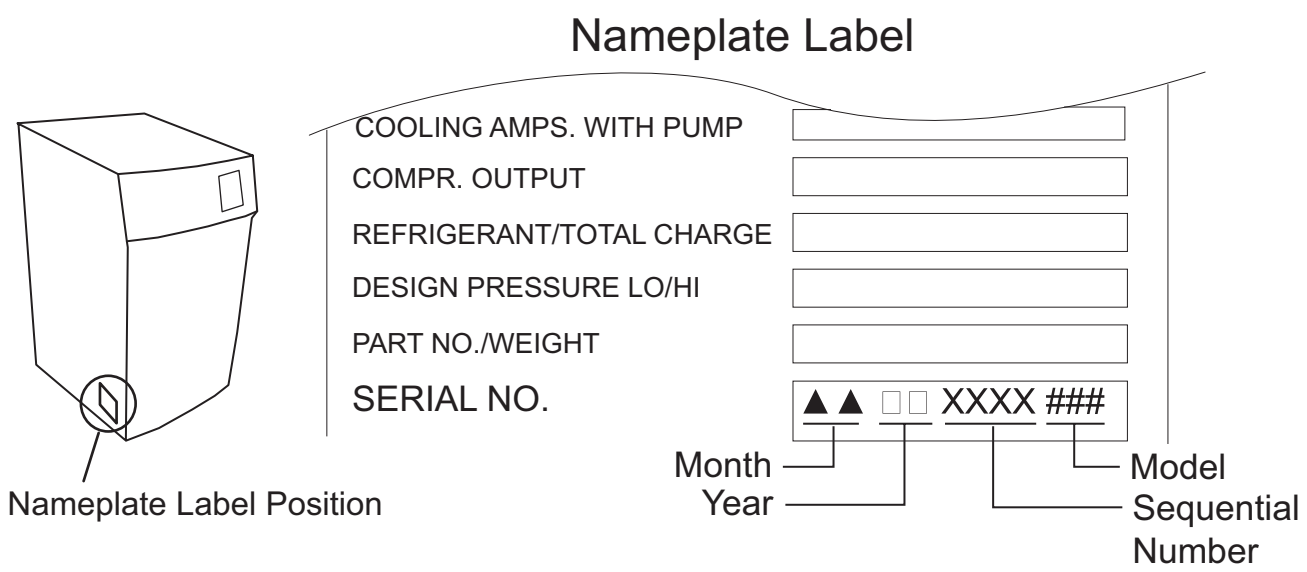
**READ THIS MANUAL CAREFULLY FOR INSTRUCTIONS ON CORRECT
INSTALLATION AND USAGE, AND READ ALL SAFEGUARDS**

SECCIÓN EN ESPAÑOL
SECTION EN FRANÇAIS
AVAILABLE AT WWW.MOVINCOOL.COM



MOVINCOOL®
THE #1 SPOT COOLING SOLUTION

SERIAL NUMBER LOCATION AND IDENTIFICATION



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OPERATION MANUAL

OFFICE PRO 12 / OFFICE PRO 18 / OFFICE PRO 24

MOVINCOOL®
THE #1 SPOT COOLING SOLUTION

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FOREWORD

Congratulations on purchasing the MovinCool portable air conditioner. This manual explains how to install and operate the MovinCool Office Pro 12, Office Pro 18, and Office Pro 24 portable air conditioning units. 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

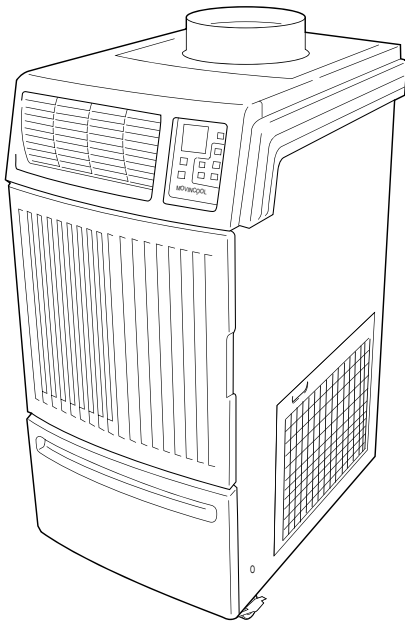
1. All electrical work, if necessary, should only be performed by qualified electrical personnel. Repair to electrical components by non-certified technicians may result in personal injury and/or damage to the unit. All electrical components replaced must be genuine MovinCool parts, purchased from an authorized reseller.
2. The proper electrical outlet for MovinCool units must be equipped with a UL recognized circuit breaker.
3. Because of potential safety hazards under a certain condition, we strongly recommend against the use of an extension cord. However, if you still elect to use an extension cord, it is absolutely necessary that it is a UL listed, 3-wire grounding type appliance extension cord, having a 3-blade and a 3-slot receptacle that plugs into the appliance. The marked rating of the extension cord should be 115 V, 15 A for Office Pro 12, and 115 V, 20 A for Office Pro 18 and 230 V, 20 A for Office Pro 24 or equivalent.
4. The Office Pro 12 and Office Pro 18 are equipped with a 10 feet (3 m) UL recognized LCDI power cords. The Office Pro 24 is equipped with a 6 feet (1.8 m) UL recognized LCDI power cord. For replacement, fixed location (hard wired) or power cord lengthening (extension cord) cords are required, contact your reseller or a qualified electrician for approved replacement methods.
5. Never fold or place heavy objects on the power cord. This could result in damage to the power cord causing electrical shock or fire.
6. 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.
7. Do not sit or stand on the unit.

INVENTORY

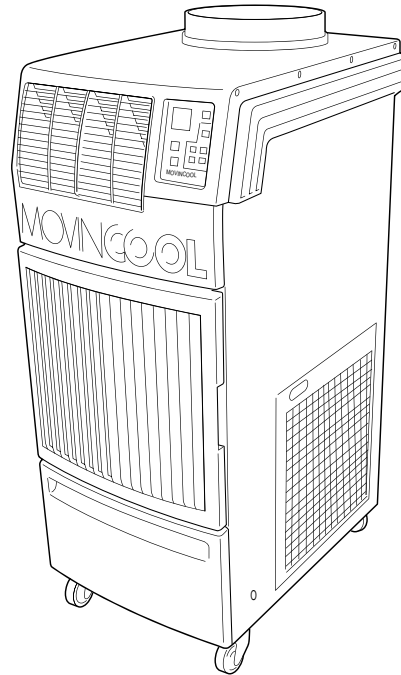
After unpacking your MovinCool unit, please check to make sure you have the following items:

1. **Office Pro 12 or Office Pro 18 or Office Pro 24 MovinCool Unit (1)**
2. **Operation Manual/Product Registration (1)**

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



**OFFICE PRO 12 UNIT
OFFICE PRO 18 UNIT**




OFFICE PRO 24 UNIT



**OPERATION MANUAL /
PRODUCT REGISTRATION**

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.

1. Do not use the unit in areas where leakage of flammable gas may occur.
2. Do not use the unit in areas where it is exposed to rain or water.
3. Do not use the unit in an environment which contains excessive amounts of corrosive gas or vapour.
4. Do not use in areas where the temperature is outside the allowable operating range.
5. 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.
6. Install the unit in areas that can with-stand the weight of the unit.

MODEL	UNIT WEIGHT*1
Office Pro 12	186 lb (85 kg)
Office Pro 18	205 lb (93 kg)
Office Pro 24	240 lb (109 kg)

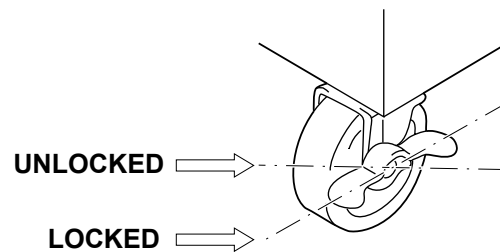
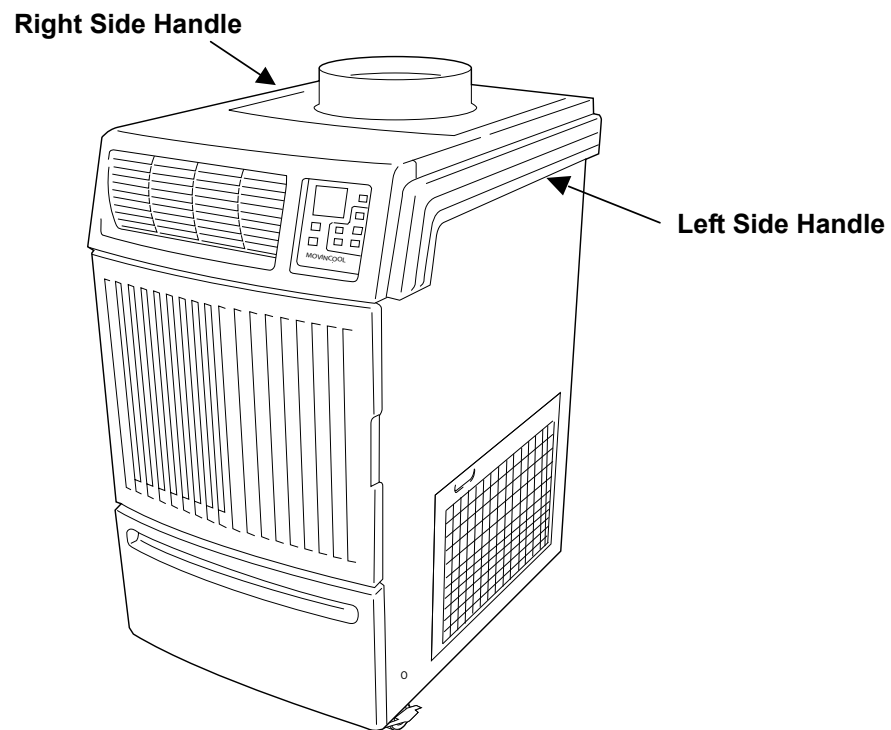
*1: Approximate weight when the drain tank is full of water.

7. Allow 18 inch of unobstructed airflow for both the air inlets and outlets.
8. Do not use the unit at condition above 95 °F (35 °C) 60 %RH.

INSTALLATION (cont.)

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.



INSTALLATION (cont.)

Plugging in the Unit

1. 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.
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 or a qualified technician for repair.




WARNING:

1. **If the power cord or plug is damaged, replacement should only be performed by qualified electrical personnel.**
2. **Do not connect/disconnect the power cord or attempt to operate buttons with wet hands. This could result in electrical shock.**
3. **Because of potential safety hazards under a certain condition, we strongly recommend against the use of an extension cord. However, if you still elect to use an extension cord, it is absolutely necessary that it is a UL listed, 3-wire grounding type appliance extension cord, having a 3-blade and a 3-slot receptacle that plugs into the appliance. The marked rating of the extension cord should be the following rating or equivalent.**

MODEL	RATING OF EXTENSION CORD
Office Pro 12	115 V, 15 A
Office Pro 18	115 V, 20 A
Office Pro 24	208/230 V, 20 A

INSTALLATION (cont.)

Plugging in the Unit (cont.)

 **CAUTION:** The power source should be a dedicated single outlet circuit with UL recognized short-circuit and ground fault protective breaker. Do not share the AC outlet with any other instrument or equipment. The minimum power supply rating and the maximum fuse size for each corresponding model are listed below.

MODEL	MINIMUM POWER SUPPLY RATING	RECOMMENDED FUSE SIZE
Office Pro 12	115 V, single phase, 60 Hz, 15 A	15 A maximum
Office Pro 18	115 V, single phase, 60 Hz, 20 A	20 A maximum
Office Pro 24	208/230 V, single phase, 60 Hz, 20 A	20 A maximum

Note:

- 1. Make sure the AC outlet is free of dirt, dust, oil, water, or any other foreign matter.*
- 2. The Office Pro 12 is equipped with UL recognized LCDI cord and NEMA plug configuration (5-15). The appropriate outlet must be used for this plug type.*
- 3. The Office Pro 18 is equipped with UL recognized LCDI cord and NEMA plug configuration (5-20). The appropriate outlet must be used for this plug type.*
- 4. The Office Pro 24 is equipped with UL recognized LCDI cord and NEMA plug configuration (6-20). The appropriate outlet must be used for this plug type.*

INSTALLATION (cont.)

Warning Signal Connection (Output Signal Terminal L+ and L-)

The controller is equipped with a warning signal output relay type (Form C, normal open dry contact) which can be used to monitor the failure condition.

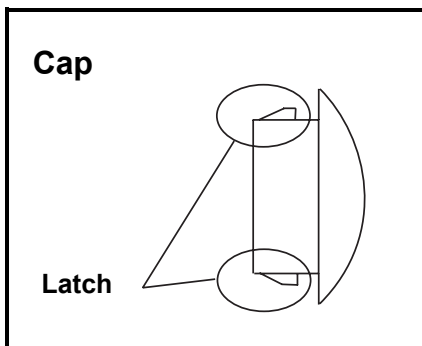
Relay contactor is closed when the following condition has occurred:

- a. Tank full
- b. Temperature sensor fails
- c. High pressure switch error (Office Pro 24 ONLY)

The relay output contactor is rated 2 A at 30 VDC or 2 A at 30 VAC (resistive load) and it is compatible with various warning devices such as alarm speaker, light indicators, etc.

Connecting Warning Signal From Controller

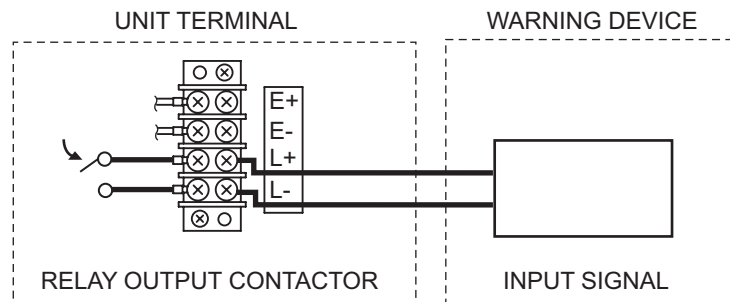
1. Remove service panel from the rear of the unit.
2. Squeeze the inner latches and push out the black cap from inside the panel.



3. Insert the warning signal wire through the hole in the rear panel.

Note: Use recommended warning signal wire size from 16AWG to 26 AWG for a solid wire, or 16 AWG to 22 AWG for a stranded wire with ring terminal for #6 stud size.

4. Connect the warning device to terminal L+ and L- according to its polarities.



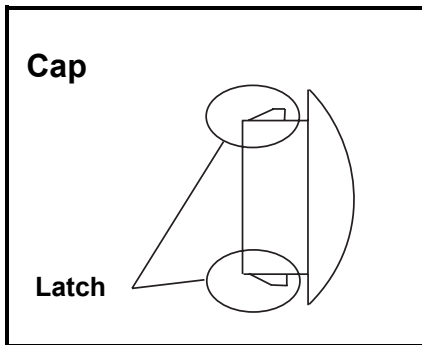
INSTALLATION (cont.)

Fire Alarm Control Panel Connection (Input Signal Terminal E+ and E-)

The controller is equipped with a normal open input signal connection, which can be connected directly from the fire alarm control panel. This input signal terminal should only be connected to a close or open dry contact signal. When receiving the signal from the fire alarm control panel, the unit turns off and does not turn back on until it has been RESET.

Connecting Fire Alarm Control Panel to Controller

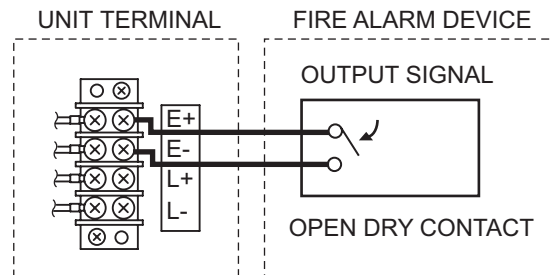
1. Remove service panel from the rear of the unit.
2. Squeeze the inner latches and push out the black cap from inside the panel.



3. Insert the fire alarm signal wire through the hole in the rear panel.

Note: Use recommended warning signal wire size from 16 AWG to 26 AWG for a solid wire, or 16 AWG to 22 AWG for a stranded wire with ring terminal for #6 stud size.

4. Connect the fire alarm device to terminal E+ and E- according to its polarities.



INSTALLATION (cont.)

LCDI Power Cord Instruction

WARNING

The LCDI device is a non-serviceable device. Attempting to open the device may expose the user to the hazards of electric shock, and could void warranties of this product. Manufacturer's reliability is limited to the replacement of the device.

CAUTION

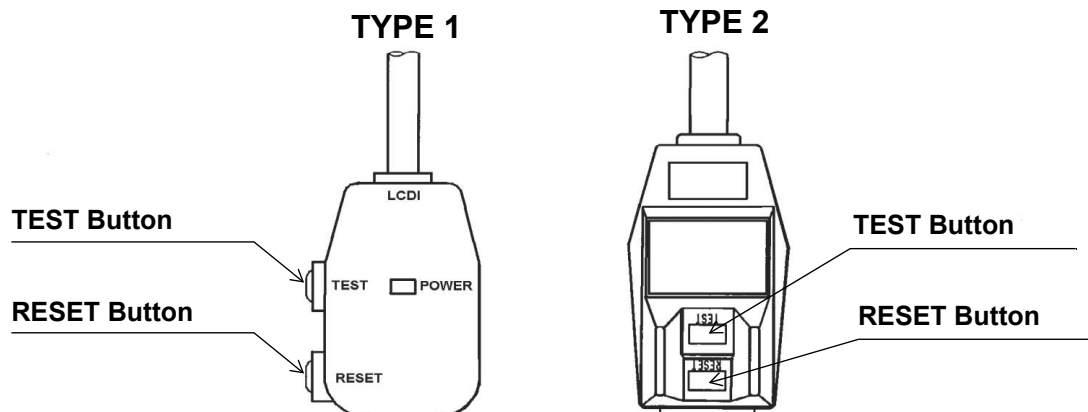
1. Read the attention printed on the device for proper use and handling of this device.
2. This device is used for monitoring leakage current.
3. Do not immerse in water.
4. This device must only be plugged into an appropriate wall outlet. Do not use on extension cords or adapter. Do not remove ground prong.
5. In the event that this device trips, the cause of malfunction should be corrected first before further use.
6. Using the device beyond recommended voltage poses risk to users.
7. Conductors inside this cord are surrounded by shields, which monitor leakage current. These shields are not grounded, and they are periodically examined the cord for any damage. Do not use this product in the event the shields become exposed.
8. Do not push TEST and/or RESET buttons in a short period.

Procedure

Test device once when AC is installed to assure proper operation.

1. Plug into grounded power receptacle.
2. If light is not on, press RESET button once. Light should turn on.
3. Press TEST button once, light must turn off.
4. Press RESET button once again for use. Light should turn on.
5. If test fails, do not use.

<FRONT VIEW>



FEATURES

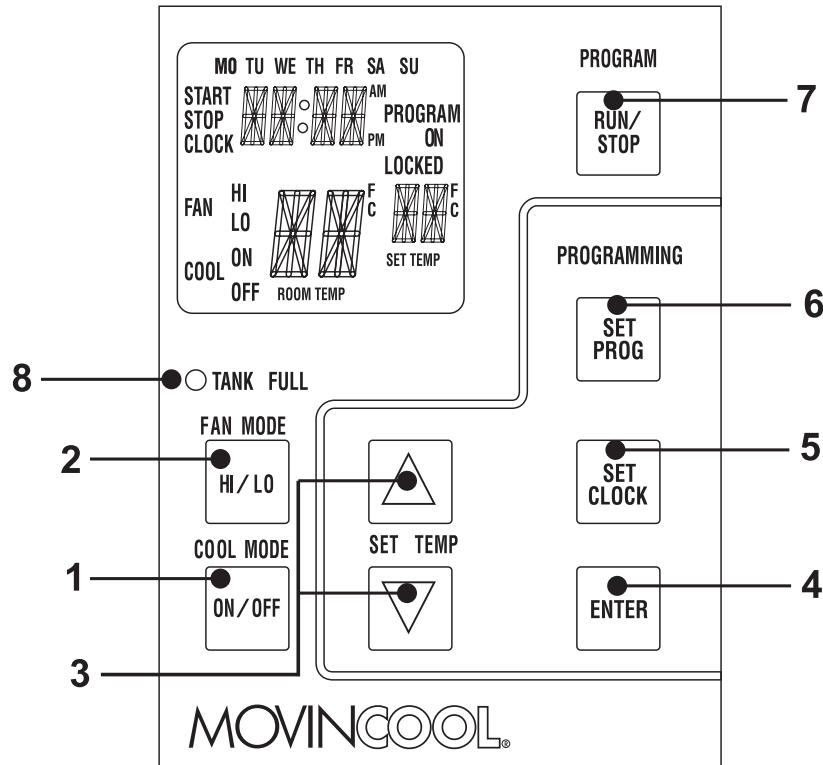
For all models:

1. A digital electronic control panel, which allows the user to easily control the unit's operation.
2. Dual fan speeds (either HIGH or LOW) in both COOL and FAN ONLY modes.
3. Digital LCD display with blue backlight that indicates:
 - a. Clock with day and time
 - b. Room temperature and set point temperature (either Fahrenheit or Celsius)
 - c. Fan speed status
 - d. Cool mode status
 - e. Program start time and stop time
 - f. Program run and stop
 - g. Status codes
 - h. Keypad lock
4. The set point temperature can be adjusted between 65 °F (18.3 °C) and 90 °F (32.2 °C) by the SET TEMP buttons (Δ/∇).
5. Fire alarm control panel connection with automatic shut off.
6. Automatic shut off, warning signal output and alarm for temperature sensor failure, loss of cooling, and conditions of self-diagnostic codes.
7. Condensate drain "TANK FULL" indicator (LED) and display (LCD).
8. Automatic restart feature when the power is lost and regained. The unit returns to the operating mode it was in prior to the loss of power. Any preset program is retained in the memory in the event power loss occurs.
9. Programmable clock/timer function. This function allows the user to program a specific time and day at which the unit begins to operate/start and turn off (Automatic Operation).

OPERATION

Control Panel

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

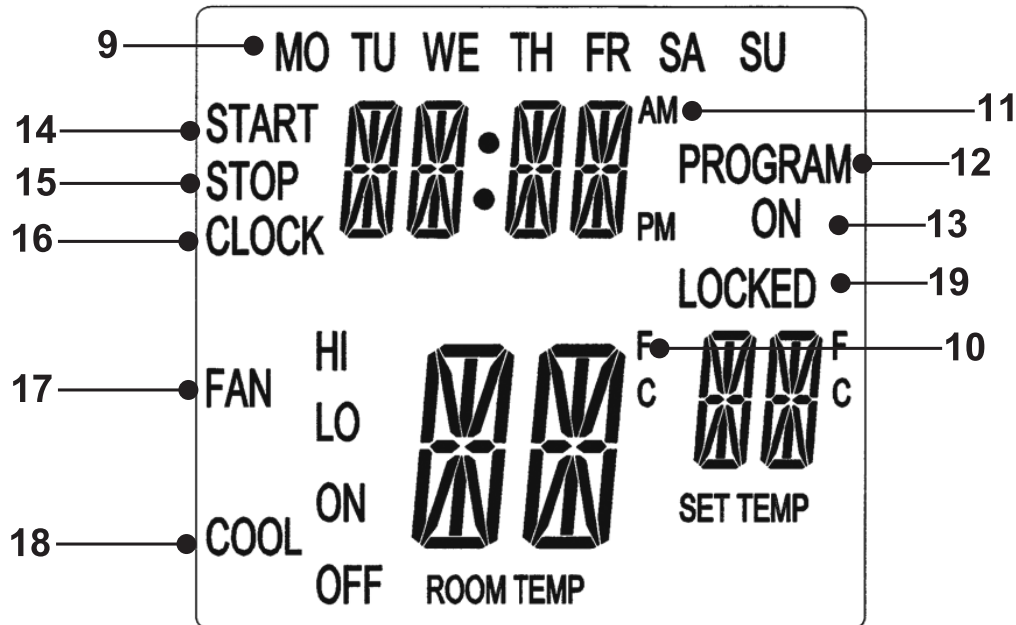


- | | |
|---|---|
| 1. COOL Mode Button | Activates/deactivates the COOL mode/turns the unit off. |
| 2. FAN Mode Button | Activates/deactivates the high, low, and off fan speed. |
| 3. SET TEMP Buttons (Δ/∇) | Temperature scale illuminates to indicate the current LED temperatures being displayed are either in $^{\circ}\text{C}$ or $^{\circ}\text{F}$; also displays the clock when programming. |
| 4. ENTER Button | Press to select set value. |
| 5. SET CLOCK Button | Press to set clock (day and time). |
| 6. SET PROG Button | Press to set or view program. |
| 7. RUN/STOP Button | Activates/deactivates program(s). |
| 8. TANK FULL LED | Flashes when the drain tank is full. |

OPERATION (cont.)

Control Panel (cont.)

LCD Indicators



9. MO...SU

Illuminates to indicate selected day of the week.

10. °C or °F

Temperature displayed in either Fahrenheit or Celsius (see Note).

11. AM/PM

Illuminates to indicate AM or PM time of day.

12. PROGRAM

Blinking during program editing mode.

13. PROGRAM ON

Illuminates to indicate program is running.

14. START

Illuminates to indicate program start time.

15. STOP

Illuminates to indicate program stop time.

16. CLOCK

Illuminates to indicate clock status.

17. FAN HI/LO

Illuminates to indicate selected fan speed.

18. COOL ON/OFF

Illuminates to indicate cool on or off.

19. LOCKED

Illuminates to indicate keypad locked.

Note: ROOM TEMP display range is from 16 °F to 109 °F (-9 °C to 42 °C). When the display value is greater than 99 °F, it displays values of +0F (for 100 °F), +1F (for 101 °F) and +9F (for 109 °F). (This only applies to Fahrenheit values.)

OPERATION (cont.)

Operating Modes

The Office Pro 12, Office Pro 18, and Office Pro 24 can be operated in two modes, FAN ONLY and COOL. When in FAN ONLY mode, the unit circulates the surrounding air. When in COOL mode, the compressor is operated and cool air is circulated.

1. COOL Mode

Once the compressor has been disengaged for more than 120 seconds, the unit operates in FAN ONLY mode for approximately 5 seconds before the compressor re-engages.

2. Temperature Control

The room temperature thermistor monitors the inlet temperature versus set point temperature and switches the unit automatically between COOL and FAN ONLY modes.

3. Fan Mode Control DIP Switch

The fan mode control DIP switch determines whether the fan continues to operate or stop when the compressor cycles off. (Set point temperature below the inlet air or room temperature.) The unit has been preset at the factory for continuous fan operation.

Note: If you want to change the fan mode operation (from OPERATE to STOP), contact your MovinCool reseller.

4. 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 at the factory to display the temperature(s) in °F.

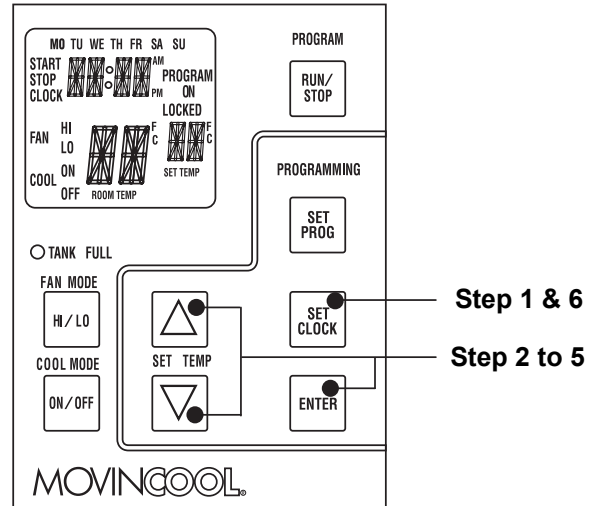
Note: If you want to change the temperature scale display (°F to °C), contact your MovinCool reseller.

OPERATION (cont.)

Set Clock

Prior to operating the Office Pro 12, Office Pro 18, or Office Pro 24 users should set the clock of the controller to the correct time as shown in the following steps:

1. Press and hold the SET CLOCK button for 3 seconds or until beep. (LCD indicates blinking “CLOCK” and blinking “day of the week”.)
2. Press SET TEMP buttons to scroll day of the week.
3. Press ENTER button.
4. Press SET TEMP buttons to select correct hour.
5. Press ENTER button.
6. Press SET TEMP buttons to select correct minute. Press SET CLOCK button to exit clock mode.



Note: User should check clock periodically to confirm clock accuracy.

Operating in COOL Mode

1. The unit can be operated in COOL mode by pressing the COOL ON/OFF button (LCD indicates “COOL ON”).

Note: In COOL mode the unit can only be turned off by pressing the COOL ON/OFF button.

2. Change the fan speed by pressing the FAN HI/LO button.
3. Change the temperature set point by pressing the SET TEMP buttons (Δ / ∇).

Note: When turning the unit on, the set point and fan speed are determined by the last operating mode. (This function does not apply to PROGRAM mode.)

OPERATION (cont.)

Operating in FAN ONLY Mode

1. The unit can also be operated in FAN ONLY mode by pressing FAN HI/LO button (LCD indicates “FAN HI/LO” and “COOL OFF”).
2. The unit can then be turned off by pressing the FAN HI/LO button until fan turns off (FAN ONLY mode speed sequences are HI→LO→OFF).

Changing from FAN ONLY Mode to COOL Mode

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 (LCD indicates “COOL ON”).

Note: The FAN ONLY mode does not operate after the COOL mode has been activated. The unit can only be turned off by pressing the COOL ON/OFF button.

Keypad Lock

Keypad lock disables all buttons on the controller panel except keypad lock and unlock operations.

1. To lock, press and hold ENTER and SET CLOCK buttons simultaneously for 5 seconds.
2. To unlock, press and hold ENTER and SET CLOCK buttons simultaneously for 5 seconds again.

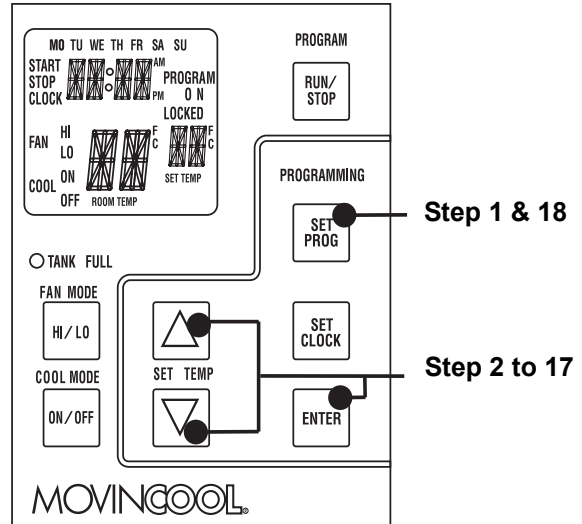
Note: When the unit detects operation failure, keypad is unlocked automatically and self-diagnostic code illuminates.

OPERATION (cont.)

How to Set a Program

SET START TIME

1. Press and hold the SET PROG button for 3 seconds or until beep.
2. Press SET TEMP buttons to scroll day of the week.
3. Press ENTER button.
4. Press SET TEMP buttons to select desired hour.
5. Press ENTER button.
6. Press SET TEMP buttons to select desired minute.
7. Press ENTER button.



SET STOP TIME

8. Press SET TEMP buttons to scroll day of the week.
9. Press ENTER button.
10. Press SET TEMP buttons to select desired hour.
11. Press ENTER button.
12. Press SET TEMP buttons to select desired minute.
13. Press ENTER button.

SET FAN SPEED

14. Press SET TEMP buttons to select desired fan speed.
15. Press ENTER button.

SET SET-POINT TEMPERATURE

16. Press SET TEMP buttons to select desired temperature.
17. Press ENTER button.

EXIT PROGRAM EDITING MODE

18. Press SET PROG button to exit program editing mode.

EDIT MULTIPLE PROGRAMS

19. Repeat step 1. to 18. to set up multiple programs.

Note: Maximum 7 programming sequences

OPERATION (cont.)

How to View and Delete Program

1. Press and hold the SET PROG button for 3 seconds or until beep.
2. To view edited program - While pressing and holding the SET PROG button, press SET TEMP buttons (Δ/∇) to scroll program sequence.
3. To delete a program - Press ENTER and SET PROG buttons once simultaneously.
4. To delete multiple program - Press and hold ENTER and SET PROG buttons simultaneously.

How to Run and Stop Program

1. Press RUN/STOP button to activate preset program (LCD indicates "PROGRAM ON"). During PROGRAM RUN mode, if you RESET (press FAN HI/LO and COOL ON/OFF buttons simultaneously for 5 seconds), PROGRAM RUN mode is terminated. To resume PROGRAM RUN mode, you must push RUN/STOP button again.
2. Press RUN/STOP button to stop program.


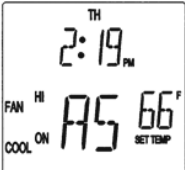
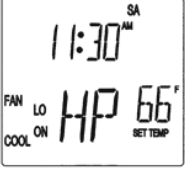
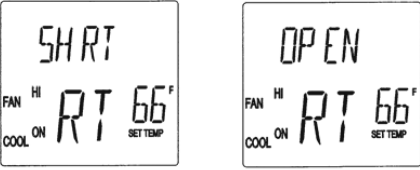
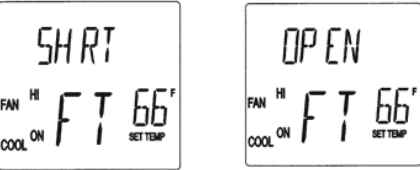

Note:

1. *The unit returns to the previous mode if a program is turned off while it is running.*
2. *The LCD continues to indicate "PROGRAM ON" during program activating.*
3. *Program can be set during power on standby, during unit running, or during program running.*
4. *During programming, the unit returns to the previous mode if no activity occurs within approximately 3 minutes.*

OPERATION (cont.)

Self-Diagnostic Codes

Self-diagnostic codes are displayed on the control board under the following conditions.

LCD Display Codes	Condition
	<p>When the drain tank switch shuts off the unit, LCD displays “TANK FL” and “TANK FULL” LED flashes. Once emptying the drain tank procedure is completed and ON/OFF has been pushed, unit returns to normal operation.</p>
	<p>When the condensate pump stops pumping water due to any kink and/or blockage in the drain line or due to improper routing of the drain line, the compressor shuts off, and the LCD displays “AS”. Once the condition is fixed and unit has been RESET, the unit returns to normal operation. To RESET: Press FAN HI/LO and COOL ON/OFF buttons simultaneously for 5 seconds.</p>
	<p>< Office Pro 24 ONLY > When high pressure switch is activated, display shows “HP” if high pressure switch is activated 3 times in 24 hours, unit displays blinking “HP” and a buzzer turns on (see page 28). Unit returns to normal operation after problem is fixed and controller is RESET. To RESET: Press FAN HI/LO and COOL ON/OFF buttons simultaneously for 5 seconds.</p>
	<p>When room thermistor becomes open or shorted, display shows “OPEN RT” or “SHRT RT” and cool mode operation is off. Display and cool mode operation are returned to normal operation after room thermistor is fixed.</p>
	<p>When freeze thermistor becomes open or shorted, display shows “OPEN FT” or “SHRT FT” and cool mode operation is off. Display and cool mode operation are returned to normal operation after freeze thermistor is fixed.</p>
	<p>When the unit detects a signal from the fire alarm system, the display shows “ALRM” and a buzzer turns on. Check the fire alarm system and confirm that there is no signal input to the unit. The unit returns to the normal operation after the problem is fixed and the controller is RESET. To RESET: Press FAN HI/LO and COOL ON/OFF buttons simultaneously for 5 seconds.</p>

Contact your MovinCool reseller or a qualified technician if problem persists.

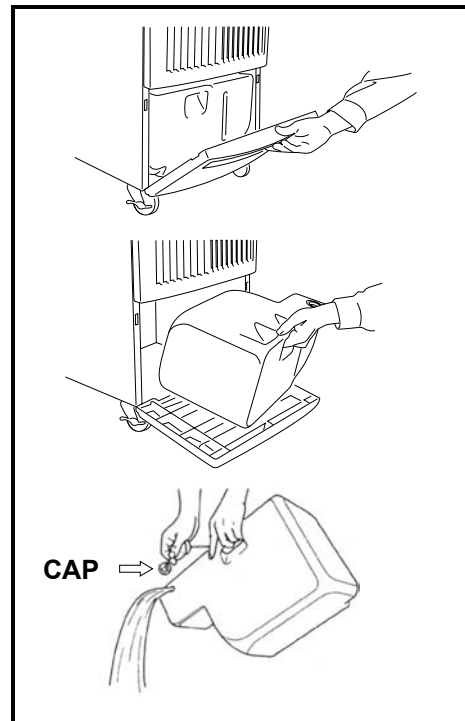
OPERATION (cont.)

Empty the Drain Tank

During COOL mode, condensate water accumulates in the drain tank. When the drain tank becomes full, the “TANK FULL” LED flashes and the LCD displays “TANK FL” and the unit turns 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 stop the program by pressing the RUN/STOP button.

1. Open the drain tank door.
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 door.
6. Press the COOL ON/OFF or FAN ON/OFF button to restart the unit.
7. If the LCD indicates “PROGRAM ON”, press the COOL ON/OFF button to continue running the program. If the LCD indicates “PROGRAM ON” 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.

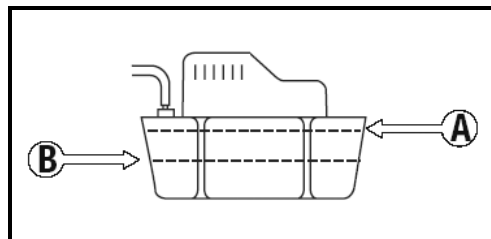


OPERATION (cont.)

Condensate Pump Kit (Optional)

A condensate pump kits are available to allow continuous operation and to eliminate the need for a drain tank.

When the water collects to level (A) in the pump reservoir, the condensate pump begins to operate and discharge the water.

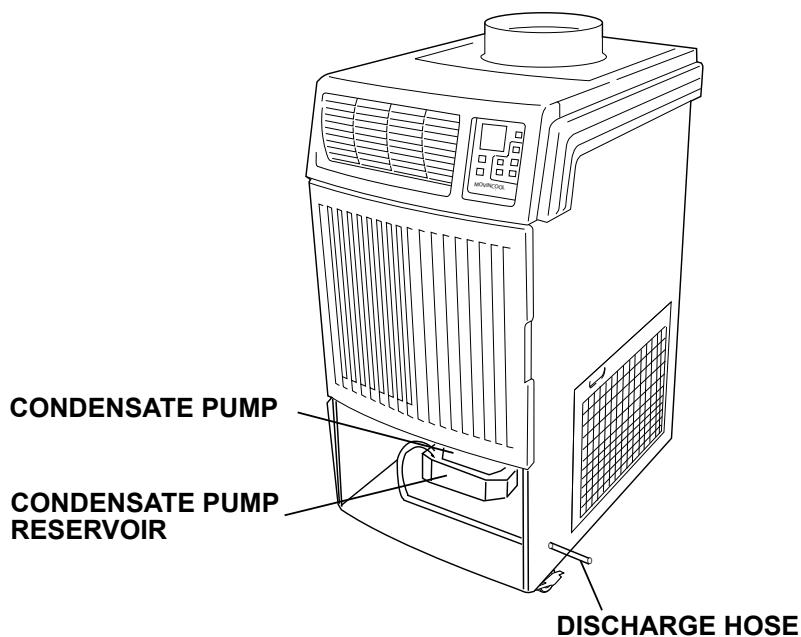


Note: The compressor does not operate while the condensate pump is discharging the water for the Office Pro 12 and Office Pro 18.

When the water level drops below level (B), the condensate pump stops, and the compressor restarts.

Note: If for any reason the water level exceeds that of level (A) in the pump reservoir, an over flow drain switch stops the compressor operation, and the LCD displays "AS".

Note: If the fan mode control DIP switch (see page 18) is set to the STOP position, the entire unit (including fan operation) turns off either due to the over flow drain switch or while the condensate pump is discharging the water.



DAILY INSPECTION & MAINTENANCE

Empty the Drain Tank

To empty the drain tank, refer to instructions on page 24.

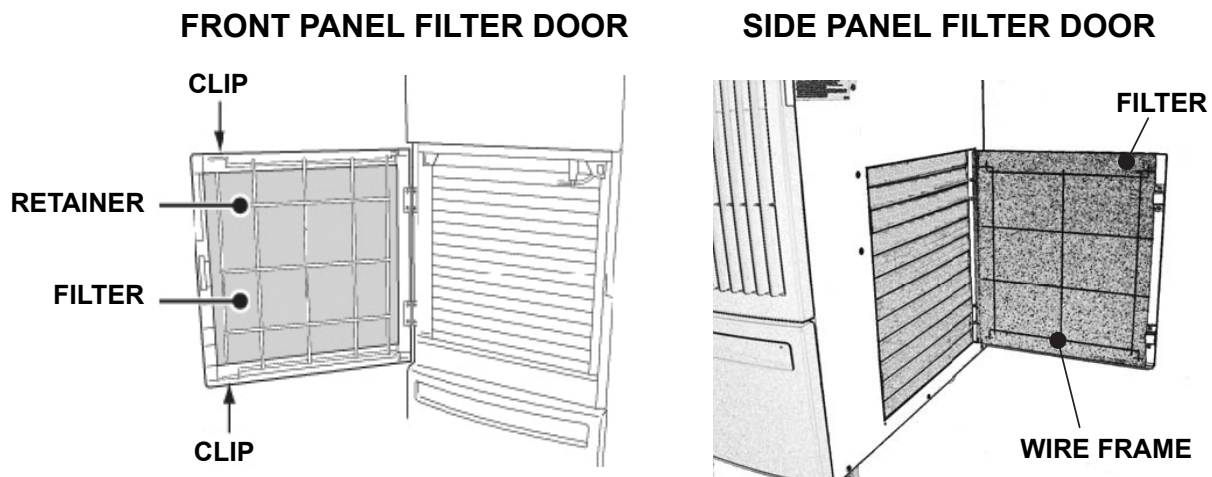
Clean the Air Filters

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 can reduce air output resulting in a decrease in the cooling capacity.

Filter Removal Method

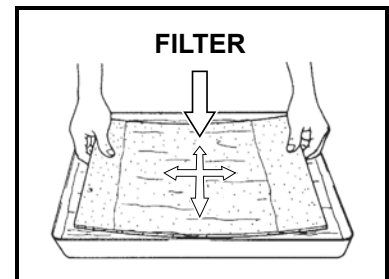
1. Turn the unit off by pressing the COOL ON/OFF button.
If a program is running, you must first press the PROGRAM RUN button.
2. Remove the two air filters.

Note: To remove the filter from the Office Pro models, open the front panel and side panel filter doors. On the front panel door, carefully remove the filter retainer from its clips by pulling on the retainer at those two points. On the side panel door, carefully remove the filter element from the wire frame.



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.



DAILY INSPECTION & MAINTENANCE (cont.)

In-Season/Off-Season Inspection & Maintenance

In-Season

 **WARNING:** To prevent an accident due to electrical shock, perform inspection and maintenance only after unplugging the power cord.

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 or a qualified technician 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 or a qualified technician for repair.
5. Clean the air filters.
6. Empty all water from the drain tank.

TROUBLESHOOTING

Check the following items before calling your MovinCool reseller or a qualified technician.

CONDITION	POSSIBLE CAUSE	REMEDY
Unit does not operate.	1. Ground fault breaker trip or LCDI power cord trip.	Reset breaker or reset power cord.
	2. Drain tank is full. ("TANK FULL" LED flashes.)	Empty the drain tank.
	3. High pressure switch activated 10 times in 24 hours.	1. Clean air filter. 2. Check inlet and outlet air to make sure that there are no objects preventing the air flow into or out from the unit. 3. Check environmental condition whether it is within operation range or not. 4. Reset controller. To RESET: Press FAN HI/LO and COOL ON/OFF buttons simultaneously for 5 seconds, controller returns to normal operation.
Insufficient cooling.	1. Dirty/Blocked air filters.	Clean air filter.
	2. Air inlet/outlet blocked.	Clean air inlet/outlet.
	3. Improper temperature setting.	Adjust temperature setting.

If conditions persist after the above actions have been taken, turn the unit off, disconnect the power and contact your MovinCool reseller or a qualified technician.

TECHNICAL SPECIFICATIONS

ITEMS/FEATURES	Office Pro 12	Office Pro 18	Office Pro 24
Rating Conditions			
Dry bulb	95 °F(35 °C)	95 °F(35 °C)	95 °F(35 °C)
Wet bulb	83 °F(28.2 °C)	83 °F(28.2 °C)	83 °F(28.2 °C)
Humidity	(60 %)	(60 %)	(60 %)
Specifications			
Power frequency	60 Hz	60 Hz	60 Hz
Line voltage	Single Phase 115 V	Single Phase 115 V	Single Phase 208/230 V
Power consumption	1.3 kW	1.7 kW	2.9/2.9 kW
Current consumption	11.9 A	15.6 A	14.2/13.1 A
Power factor	95 %	95 %	99 %/96 %
Starting current	52 A	65 A	62 A
Power wiring	14(3-core) AWG	12(3-core) AWG	12(3-core) AWG
Cooling Unit			
Cooling capability	12,000 Btu/h (3,510 W)	16,800 Btu/h (4,920 W)	23,600/24,000 Btu/h (6,900/7,020 W)
Cooling system	Direct Expansion	Direct Expansion	Direct Expansion
Blower			
Type of fan	Centrifugal Fan	Centrifugal Fan	Centrifugal Fan
Air volume:Evaporator (high speed)	410 CFM (697 m³/h)	540 CFM (917 m³/h)	630 CFM (1,070 m³/h)
Condenser (high speed)	820 CFM (1,398 m³/h)	770 CFM (1,308 m³/h)	870 CFM (1,478 m³/h)
Motor output: High	0.14 kW	0.24 kW	0.57 kW
Low	0.08 kW	0.17 kW	0.40 kW
Compressor			
Type	Hermetic Rotary	Hermetic Rotary	Hermetic Rotary
Output	0.91 kW	1.16 kW	1.83 kW
Refrigerant type	R-410A	R-410A	R-410A
Refrigerant capacity	1.06 lb (0.48 kg)	1.70 lb (0.77 kg) ^{*1} 1.63 lb (0.74 kg) ^{*2}	1.98 lb (0.90 kg) ^{*3} 2.05 lb (0.93 kg) ^{*4}
Safety Devices			
Compressor overload protector	Include	Include	Include
Fan motor protector	Include	Include	Include
Anti-freezing thermistor	Include	Include	Include
Full drain tank switch	Include	Include	Include
Automatic restart (power interruption)	Include	Include	Include
Compressor time delay program	Include	Include	Include
High pressure interruption	N/A	N/A	Include
Signal input/output	Include	Include	Include
Dimensions & Weight			
W×D×H (in)	21 × 27 × 44	21 × 27 × 44	21 × 27 × 49
W×D×H (mm)	538 × 685 × 1,118	538 × 685 × 1,118	538 × 685 × 1,245
Weight (lb/kg)	151/69	170/77	205/93

*1: Serial number from April 2007 (0407) to September 2010 (0910)

*2: Serial number from October 2010 (1010) to present

*3: Serial number from April 2007 (0407) to December 2011 (1211)

*4: Serial number from January 2012 (0112) to present

TECHNICAL SPECIFICATIONS (cont.)

ITEMS/FEATURES	Office Pro 12	Office Pro 18	Office Pro 24
Operating Conditions Inlet air: Maximum Minimum	95°F(35°C), 60%RH 65°F(18.3°C), 50%RH	95°F(35°C), 60%RH 65°F(18.3°C), 50%RH	95°F(35°C), 60%RH 65°F(18.3°C), 50%RH
Control Device Temperature control Programmable timer Two speed fan	Include Include Include	Include Include Include	Include Include Include



WARRANTY STATEMENT

DENSO PRODUCTS AND SERVICES AMERICAS, 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 the original 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 listed below beginning from the date of purchase on the invoice to the end-user:

Model(s): Office Pro 12, Office Pro 18, Office Pro 24

Warranty: 3 Years with warranty registration OR 1 Year for unregistered units.

DENSO shall, at its sole discretion, 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 parts or devices not supplied or approved by DENSO; (viii) improper installation or service; (ix) shipping damage to any units or spare parts during shipping. This includes and is not limited to compressors, evaporators and condenser coils. 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.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY, AS LIMITED HEREIN, SHALL BE IN LIEU OF AND EXCLUSIVE OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, ON THE PART OF DENSO PRODUCTS AND SERVICES AMERICAS, INC., OR DENSO CORPORATION, WHETHER ARISING FROM LAW, COURSE OF DEALING, USAGE OF TRADE, OR OTHERWISE, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF A PARTICULAR PURPOSE OR ANY LIABILITY FOR COMMERCIAL LOSSES BASED UPON NEGLIGENCE OR MANUFACTURER'S STRICT LIABILITY. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NEITHER DENSO PRODUCTS AND SERVICES AMERICAS, INC., NOR DENSO CORPORATION WILL, IN ANY EVENT, BE LIABLE FOR LOST PROFITS, COSTS OF PROCESSING, INJURY, GOODWILL, OR ANY OTHER CONSEQUENTIAL DAMAGES OF ANY KIND ARISING FROM BREACH OF THIS WARRANTY.

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PURCHASE DATE: _____

SERIAL NUMBER: _____

DENSO

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