

# Wolf Ventilation Guide





## Contents

- 3 Selecting a Ventilation System
- 9 Determine the Duct Run
- 11 Determine the CFM
- 11 Select a Blower
- 14 Wolf Warranties

Features and specifications are subject to change at any time without notice. Visit [wolfappliance.com/specs](http://wolfappliance.com/specs) for the most up-to-date information.

**IMPORTANT NOTE:** Throughout this guide, dimensions in parentheses are millimeters unless otherwise specified.

### Selecting a Ventilation System

When selecting a ventilation system, start by choosing the proper Wolf ventilation product, determined by the type of cooking appliance used and the following considerations:

- Cooktop or pro ventilation
- Updraft or downdraft
- Width guidelines
- Hood mounting height
- Ceiling height
- Cooking space / cooking style
- Ventilation performance
- Internal, in-line or remote blower
- Ducting considerations
- Electrical requirements
- Recirculating ventilation
- Custom hood applications

**IMPORTANT NOTE:** Wolf cooking products do not require ventilation when installed according to the installation instructions. Recommendations and suggestions in this guide are for performance only.

## Selecting a Ventilation System

### COOKTOP OR PRO VENTILATION

One of the primary considerations in choosing a ventilation product is the type of cooking appliance used. Wolf offers both cooktop ventilation, which includes hoods and downdraft systems, and pro ventilation hoods and liners.

Wolf cooktop ventilation hoods and downdrafts are designed for use with induction, electric and gas cooktops and modules. Some exceptions apply for downdrafts.

The chart below provides a reference of Wolf ventilation products recommended for use with specific Wolf cooking appliances.

Wolf pro ventilation hoods and liners can be used with all cooking appliances, including ranges and rangetops. A downdraft system can also be used with sealed burner rangetop models SRT304 and SRT366. An accessory trim kit is required for this installation and is available through an authorized Wolf dealer. For local dealer information, visit the find a showroom section of our website, [wolfappliance.com](http://wolfappliance.com).

WOLF VENTILATION	COOKTOP VENTILATION			PRO VENTILATION			
	CHIMNEY HOOD	LOW-PROFILE HOOD	DOWNDRAFT SYSTEM	WALL HOOD	WALL CHIMNEY HOOD	ISLAND HOOD	HOOD LINER
<b>COOKTOPS</b>							
Induction Cooktop (transitional)	•	•	•	•	•	•	•
Induction Cooktop (contemporary)	•	•		•	•	•	•
Electric Cooktop (transitional)	•	•	•	•	•	•	•
Electric Cooktop (contemporary)	•	•		•	•	•	•
Gas Cooktop	•	•	•	•	•	•	•
<b>MODULES</b>							
Induction and Electric Modules	•	•	•	•	•	•	•
Grill, Steamer and Fryer Modules	•	•		•	•	•	•
Gas and Multifunction Cooktops	•	•	•	•	•	•	•
<b>RANGES</b>							
Dual Fuel Range				•	•	•	•
Gas Range				•	•	•	•
<b>RANGETOPS</b>							
Sealed Burner RT (SRT304, SRT366)			•	•	•	•	•
Sealed Burner RT (all other models)				•	•	•	•

### Selecting a Ventilation System

#### UPDRAFT OR DOWNDRAFT

The choice between updraft ventilation and downdraft ventilation will depend on several factors, most notably the cooking appliance, type of installation and location. Updraft ventilation, or an overhead hood, is typically a more effective ventilation option. Cooking vapors naturally rise, making it easier to collect and remove them from the cooking area.

With downdraft systems, a telescopic downdraft chimney rises up from the countertop and draws cooking vapors away from the cooking surface. Downdraft ventilation is a great option in installations where an overhead hood is not desired or is not a viable option.

#### WIDTH GUIDELINES

For wall installations, the width of the hood should be at least as wide as the cooking surface. Where space is not restricted, a wider hood can be used to increase the capture area.

Island and peninsula installations require a greater capture area. Island hoods should exceed the width of the cooking surface by a minimum of 3" (76) on each side.

For downdraft ventilation systems, the width of the downdraft should match the width of the cooktop.

#### HOOD MOUNTING HEIGHT

Proper mounting height is very important. If a ventilation hood is mounted too low, access to the cooking surface may be restricted. If a hood is mounted too high, performance may be compromised.

For optimal performance, hoods should be mounted 30" (762) to 36" (914) from the bottom of the hood to the countertop.

#### CEILING HEIGHT

Before selecting a Wolf ventilation hood, check the installation site for adequate ceiling height, or any extra space that may remain after proper installation of the hood and cooking appliance. This can be determined by adding the floor-to-countertop height, plus the recommended hood mounting height (bottom of the hood to the countertop), plus the height of the hood.

Excess ceiling height can be filled using an accessory flue extension or a stainless steel duct cover for pro hoods. The space can also be adjusted by raising or lowering the hood within the specified mounting height.

## Selecting a Ventilation System

### COOKING SPACE / COOKING STYLE

The appropriate airflow capacity is determined by the cooking space and cooking style. If the cooking surface is in an island or peninsula, a higher airflow capacity hood can provide better capture for cross currents, or if the hood needs to be mounted higher. Downdraft ventilation may also be an option.

Greater exhaust capacity is required to handle the moisture generated by boiling large pots of water or the grease and smoke from grilling or frying. Cooking with high heat or cooking aromatic foods may require additional CFM and increasing the capture area by using a hood that exceeds the cooking surface by 3" (76) on each side.

### VENTILATION PERFORMANCE

Ventilation performance is measured in cubic feet per minute, or CFM. The higher the CFM, the greater the amount of air that is evacuated through the ventilation system. CFM requirements are based on the cooking appliance output. Wolf suggests 1 CFM per 100 Btu (.03 kW).

### INTERNAL, IN-LINE OR REMOTE BLOWER

All Wolf ventilation products are shipped without the blower assembly. An internal, in-line or remote blower must be selected to accommodate the cooking appliance and ventilation product.

The blower will vary in size (CFM), which is dictated by the cooking surface, the volume of air that needs to be moved and the length of the duct run.

Internal blowers are mounted inside the hood canopy or downdraft blower box and provide the least disruption to the exterior of the home.

In-line blowers are connected to the duct run between the hood and the exterior of the home. This is a great option if mounting the blower inside the hood or on the exterior of the home is not desired or is not a viable option.

Remote blowers can be mounted on the roof or, in some cases, on an exterior wall. A remote-mounted blower will minimize the amount of blower noise but will not eliminate the noise completely. If noise is a concern, a remote blower is recommended.

Internal, in-line and remote blowers are available for all Wolf cooktop and pro ventilation products.

### Selecting a Ventilation System

#### DUCTING CONSIDERATIONS

**IMPORTANT NOTE:** Unless used in a recirculating application, Wolf ventilation hoods and downdrafts must be vented to the outside. Use only rigid metal ducting.

Typically, wall-mounted ventilation hoods can be vertical or horizontal discharge, while wall chimney hoods, island hoods and hood liners are vertical discharge only. For some wall hoods, an accessory horizontal discharge kit is required. In a horizontal discharge application, additional framework may be needed to accommodate the remote blower. Wolf downdraft systems have an adjustable discharge that will allow you to negotiate ducting around floor joists and other obstacles.

Depending on the specific installation, ducting can run through the roof, external wall or eave. A remote blower can not be ducted through an eave.

A straight, short duct run with a limited number of elbows and transitions will allow the hood or downdraft to perform most efficiently. Wolf ventilation hoods will operate most efficiently when the duct run does not exceed 50' (15 m) in length, 40' (12 m) for downdrafts. To calculate total duct length, refer to page 10.

#### ELECTRICAL REQUIREMENTS

All Wolf ventilation products require a separate, grounded electrical supply. Installation must comply with all applicable electrical codes.

A ground fault circuit interrupter (GFCI) is not recommended and may cause interruption of operation.

### Selecting a Ventilation System

#### RECIRCULATING VENTILATION

Recirculating ventilation units are installed on top of a ventilation hood with no ducting required. Recirculating units recycle the air through a charcoal filter and return it to the kitchen. This type of ventilation will not remove heat, moisture or combustion gases from the air. It will also be less effective in reducing odors and smoke. Recirculating units should only be used in applications where ducting to the outside is not an option, and only if local codes allow it.

Wolf recirculating units are for use with cooktop hoods with an internal blower and some pro wall hood models. Recirculating units should not be used with ranges or rangetops that contain a charbroiler or griddle.

#### CUSTOM HOOD APPLICATIONS

A custom decorative hood, used with pro hood liners, can be created out of wood, plaster, tile or metal to match virtually any design theme. The shape of the decorative hood is not critical as long as the hood liner fits completely inside the hood. The decorative hood and liner must fit together at the bottom edge in both width and depth. The height of the hood does not have to match the height of the liner.

### Ventilation Made Easy

After choosing the proper ventilation hood or downdraft, follow this three-step process to determine your blower needs to complete the ventilation system:

- Step 1: Determine the Duct Run
- Step 2: Determine the CFM
- Step 3: Select a Blower



### Step 1: Determine the Duct Run

**IMPORTANT NOTE:** Consult a qualified HVAC professional for specific installation and ducting applications.

**Check local codes.** | Consult a qualified HVAC professional to ensure all applicable codes are followed. Refer to the installation guide for your specific Wolf ventilation product.

**Minimize the duct run.** | The length of the duct run and number of elbows and transitions can have a significant effect on ventilation performance. Keep the duct run as short as possible and limit the number of elbows and transitions. Do not use flexible metal ducting.

**Elbows and transitions.** | Do not place elbows and transitions back-to-back. Whenever possible, include a minimum 15" (381) straight ducting between elbows and transitions to increase ventilation performance.

**Use recommended duct sizes.** | Depending on the specific ventilation product, Wolf recommends 8" (203) or 10" (254) ducting. Smaller duct sizes will significantly reduce ventilation performance.

**Cold weather installations.** | Cold weather installations may require an additional backdraft damper to minimize backward flow of cold air. All Wolf ventilation hoods, except low-profile wall hoods, come with a backdraft damper connected to the transition. Downdraft systems do not have a backdraft damper.

**High altitudes.** | Ventilation systems are less effective at altitudes above 5,000' (1524 m). At these altitudes, you should estimate a 20%–25% reduction in CFM performance. A higher CFM blower and increasing the duct size is recommended.

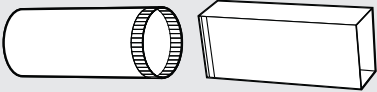
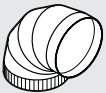
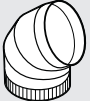
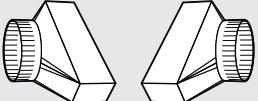
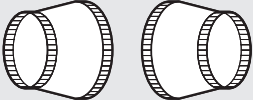
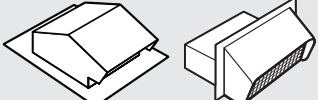
**Make-up air.** | Make-up air may be required to replace air removed by the ventilation system. Consult a qualified HVAC professional for specific applications.

## DETERMINE THE DUCT RUN

### Step 1: Determine the Duct Run

**Equivalent duct length.** | Determine the equivalent length of the duct run using the equivalent duct lengths for commonly used ducting listed below. Follow these steps and use the chart to calculate the equivalent duct length:

- 1 Compute the length of all straight ducting.
- 2 Compute the equivalent duct length of all elbows, transitions and caps.
- 3 Add equivalent lengths for all sections of the duct run.

EQUIVALENT DUCT LENGTH				
DUCTING	SIZE	EQUIVALENT LENGTH	QUANTITY	TOTAL
<b>1' (.3 m) STRAIGHT DUCTING</b>				
	6" (152) round	4' (1.2 m)		
	8" (203) round	1' (.3 m)		
	10" (254) round	.3' (.1 m)		
	3 1/4" (83) x 10" (152)	4' (1.2 m)		
<b>90° ELBOW</b>				
	6" (152) round	24' (7.3 m)		
	8" (203) round	7' (2.1 m)		
	10" (254) round	3' (.9 m)		
	3 1/4" (83) x 10" (152)	12' (3.7 m)		
<b>45° ELBOW</b>				
	6" (152) round	12' (3.7 m)		
	8" (203) round	4' (1.2 m)		
	10" (254) round	2' (.6 m)		
	3 1/4" (83) x 10" (152)	8' (2.4 m)		
<b>ROUND TO RECTANGULAR TRANSITION</b>				
	6" (152) round to 3 1/4" (83) x 10" (152)	5' (1.5 m)		
	8" (203) round to 3 1/4" (83) x 10" (152)	1' (.3 m)		
	3 1/4" (83) x 10" (152) to 6" (152) round	12' (3.7 m)		
	3 1/4" (83) x 10" (152) to 8" (203) round	16' (4.9 m)		
<b>ROUND TO ROUND TRANSITION</b>				
	6" (152) round to 8" (203) round	4' (1.2 m)		
	8" (203) round to 10" (254) round	1' (.3 m)		
	8" (203) round to 6" (152) round	12' (3.7 m)		
	10" (254) round to 8" (203) round	3' (.9 m)		
<b>ROOF CAP OR WALL CAP</b>				
	6" (152) round	60' (18.3 m)		
	8" (203) round	20' (6.1 m)		
	10" (254) round	9' (2.7 m)		
	3 1/4" (83) x 10" (152)	60' (18.3 m)		
<b>TOTAL EQUIVALENT LENGTH</b>				

## DETERMINE THE CFM

### Step 2: Determine the CFM

Ventilation performance is measured in cubic feet per minute, or CFM. The chart below provides CFM requirements specific to the Wolf cooking appliance and ventilation system used. To maximize airflow and performance, specify a blower to match or exceed the CFM listed.

Additional CFM may be required for long duct runs and ranges or rangetops with a charbroiler or griddle. When determining the proper CFM for your installation, take into consideration the equivalent duct length calculated on the previous page.

**IMPORTANT NOTE:** Consult a qualified HVAC professional for specific applications.

### Step 3: Select a Blower

All Wolf ventilation products are shipped without the blower assembly. An internal, in-line or remote blower must be selected to accommodate the cooking appliance and ventilation product. Wolf ventilation products must be installed only with a Wolf blower.

Wolf blower assemblies are available through an authorized Wolf dealer. For local dealer information, visit the find a showroom section of our website, [wolfappliance.com](http://wolfappliance.com). Installation instructions shipped with each blower provides detailed specifications.

Charts on the following pages provide internal, in-line and remote blower options for all Wolf ventilation products.

WOLF PRODUCT CFM			
MODEL	COOKTOP HOOD	DOWNDRAFT	PRO HOOD
<b>COOKTOP / MODULE</b>			
CI152T/S CE152T/S CG152T/S IG15* IS15* IF15* IM15	215	150	215
CI243C/B*	450	350	500
CI304T/S CI304C/B* CE304T/S CE304C/B*	450	350	500
CG304T/S CG304P/S	450	350	500
CI365T/S CI365C/B* CE365T/S CE365C/B*	600	500	500
CG365T/S CG365P/S CG365C/S	600	500	500
<b>DUAL FUEL RANGE</b>			
DF304			500
DF366 DF364C DF364G			900
DF486C DF486G DF484CG DF484DG DF484F			1100
DF606DG DF606F DF606CG DF604CF DF604GF			1500
<b>GAS RANGE</b>			
GR304			500
GR366 GR364C GR364G			900
GR486C GR486G GR484CG GR484DG GR484F			1100
GR606DG GR606F GR606CG			1500
<b>SEALED BURNER RANGETOP</b>			
SRT304		500	500
SRT366		500	900
SRT364C* SRT364G*			900
SRT486C SRT486G SRT484CG SRT484DG SRT484F			900

\*Downdraft systems are not recommended for use with these models. CFM are based on the cooking appliance output. 1 CFM per 100 Btu (.03 kW) recommended.

**SELECT A BLOWER**

**Step 3: Select a Blower**

BLOWER OPTIONS	INTERNAL						
	CFM	300*	450*	500	600	900	1200
<b>COOKTOP HOOD</b>							
VW30B VW36B VW45B VI42B		•			•		
VW30S VW36S VI42S		•			•		
VW36G VW45G VI45G		•			•		
<b>DOWNDRAFT</b>							
DD30 DD36 DD45					•		
<b>PRO LOW-PROFILE WALL HOOD</b>							
PW302210 PW362210				•			
PW422210 PW482210							
<b>PRO 24" WALL HOOD</b>							
PW302418 PW362418 PW422418		•	•		•	•	
PW482418 PW542418		•	•			•	•
PW602418 PW662418		•	•				•
<b>PRO 27" WALL HOOD</b>							
PW302718 PW362718 PW422718		•	•		•	•	
PW482718 PW542718		•	•			•	•
PW602718 PW662718		•	•				•
<b>PRO WALL CHIMNEY HOOD</b>							
PWC362418 PWC422418		•	•		•	•	
PWC482418 PWC542418		•	•			•	•
<b>PRO ISLAND HOOD</b>							
PI363418 PI423418		•	•		•	•	•
PI543418		•	•			•	•
PI663418		•	•				•
<b>PRO HOOD LINER</b>							
PL341912 PL342212 PL401912 PL402212		•	•		•	•	
PL461912 PL462212		•	•		•	•	•
PL521912 PL522212		•	•			•	•
PL581912 PL582212		•	•				•

\*For make-up air restricted applications. Capture and performance may be reduced.

**SELECT A BLOWER**

**Step 3: Select a Blower**

BLOWER OPTIONS	IN-LINE		REMOTE			
	600	1100	600	900	1200	1500
<b>CFM</b>						
<b>COOKTOP HOOD</b>						
VW30B VW36B VW45B VI42B	•		•			
VW30S VW36S VI42S	•		•		•	
VW36G VW45G VI45G	•		•			
<b>DOWNDRAFT</b>						
DD30 DD36 DD45	•		•		•	
<b>PRO LOW-PROFILE WALL HOOD</b>						
PW302210 PW362210	•		•	•		
PW422210 PW482210	•		•	•		
<b>PRO 24" WALL HOOD</b>						
PW302418	•	•	•	•	•	•
PW362418 PW422418 PW482418 PW542418		•		•	•	•
PW602418 PW662418		•			•	•
<b>PRO 27" WALL HOOD</b>						
PW302718	•	•	•	•	•	•
PW362718 PW422718 PW482718 PW542718		•		•	•	•
PW602718 PW662718		•			•	•
<b>PRO WALL CHIMNEY HOOD</b>						
PWC362418 PWC422418		•		•	•	•
PWC482418 PWC542418		•		•	•	•
<b>PRO ISLAND HOOD</b>						
PI363418 PI423418		•		•	•	•
PI543418		•		•	•	•
PI663418		•			•	•
<b>PRO HOOD LINER</b>						
PL341912 PL342212 PL401912 PL402212		•		•	•	•
PL461912 PL462212		•		•	•	•
PL521912 PL522212		•		•	•	•
PL581912 PL582212		•		•	•	•

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## Wolf Appliance Residential Limited Warranty

FOR RESIDENTIAL USE

### FULL TWO YEAR WARRANTY\*

For two years from the date of original installation, this Wolf Appliance product warranty covers all parts and labor to repair or replace, under normal residential use, any part of the product that proves to be defective in materials or workmanship. All service provided by Wolf Appliance under the above warranty must be performed by Wolf factory certified service, unless otherwise specified by Wolf Appliance, Inc. Service will be provided during normal business hours.

### LIMITED FIVE YEAR WARRANTY

For five years from the date of original installation, Wolf Appliance will repair or replace the following parts that prove to be defective in materials or workmanship: gas burners (excludes appearance), electric heating elements, blower motors (ventilation hoods), electronic control boards, magnetron tubes and induction generators. If the owner uses Wolf factory certified service, the service provider will repair or replace these parts with the owner paying for all other costs, including labor. If the owner uses non-certified service, the owner must contact Wolf Appliance, Inc. (using the information below) to receive repaired or replacement parts. Wolf Appliance will not reimburse the owner for parts purchased from non-certified service or other sources.

### TERMS APPLICABLE TO EACH WARRANTY

The warranty applies only to products installed for normal residential use. The warranty applies only to products installed in any one of the fifty states of the United States, the District of Columbia or the ten provinces of Canada. This warranty does not cover any parts or labor to correct any defect caused by negligence, accident or improper use, maintenance, installation, service or repair.

THE REMEDIES DESCRIBED ABOVE FOR EACH WARRANTY ARE THE ONLY ONES THAT WOLF APPLIANCE, INC. WILL PROVIDE, EITHER UNDER THIS WARRANTY OR UNDER ANY WARRANTY ARISING BY OPERATION OF LAW. WOLF APPLIANCE, INC. WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM THE BREACH OF THIS WARRANTY OR ANY OTHER WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights that vary from state to state.

To receive parts and/or service and the name of Wolf factory certified service nearest you, contact Wolf Appliance, Inc., P.O. Box 44848, Madison, WI 53744; check the contact & support section of our website, [wolfappliance.com](http://wolfappliance.com), email us at [customerservice@subzero.com](mailto:customerservice@subzero.com) or call 800-222-7820.

\*Stainless steel (doors, panels, handles, product frames and interior surfaces) are covered by a limited 60-day parts and labor warranty for cosmetic defects.

\*Replacement filters for ventilation hood recirculating kits are not covered by the product warranty.



## Wolf Appliance Outdoor Limited Warranty\*

### FOR RESIDENTIAL USE

#### FULL ONE YEAR WARRANTY\*\*

For one year from the date of original installation, this Wolf Appliance product warranty covers all parts and labor to repair or replace, under normal residential use, any part of the product that proves to be defective in materials or workmanship. All service provided by Wolf Appliance under the above warranty must be performed by Wolf factory certified service, unless otherwise specified by Wolf Appliance, Inc. Service will be provided during normal business hours.

#### LIMITED FIVE YEAR WARRANTY

For five years from the date of original installation, Wolf Appliance will repair or replace the following parts that prove to be defective in materials or workmanship: stainless steel briquette trays, gas valves, drip pans, electronic control boards and electric heating elements. If the owner uses Wolf factory certified service, the service provider will repair or replace these parts with the owner paying for all other costs, including labor. If the owner uses non-certified service, the owner must contact Wolf Appliance, Inc. (using the information below) to receive repaired or replacement parts. Wolf Appliance will not reimburse the owner for parts purchased from non-certified service or other sources.

#### LIMITED LIFETIME WARRANTY

For the life of the product, Wolf Appliance will repair or replace the following parts that prove to be defective in materials or workmanship: all stainless steel components (excludes surface corrosion, scratches, discoloration, weather and atmospheric related staining and minor surface rust and oxidation). If the owner uses Wolf factory certified service, the service provider will repair or replace these parts with the owner paying for all other costs, including labor. If the owner uses non-certified service, the owner must contact Wolf Appliance, Inc. (using the information below) to receive repaired or replacement parts. Wolf Appliance will not reimburse the owner for parts purchased from non-certified service or other sources.

#### TERMS APPLICABLE TO EACH WARRANTY

The warranty applies only to products installed for normal residential use. The warranty applies only to products installed in any one of the fifty states of the United States, the District of Columbia or the ten provinces of Canada. This warranty does not cover any parts or labor to correct any defect caused by negligence, accident or improper use, maintenance, installation, service or repair.

**THE REMEDIES DESCRIBED ABOVE FOR EACH WARRANTY ARE THE ONLY ONES THAT WOLF APPLIANCE, INC. WILL PROVIDE, EITHER UNDER THIS WARRANTY OR UNDER ANY WARRANTY ARISING BY OPERATION OF LAW. WOLF APPLIANCE, INC. WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM THE BREACH OF THIS WARRANTY OR ANY OTHER WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights that vary from state to state.

To receive parts and/or service and the name of Wolf factory certified service nearest you, contact Wolf Appliance, Inc., P.O. Box 44848, Madison, WI 53744; check the contact & support section of our website, [wolfappliance.com](http://wolfappliance.com), email us at [customerservice@subzero.com](mailto:customerservice@subzero.com) or call 800-222-7820.

\*Product must be approved for outdoor use, designated by model and serial number.

\*\*Stainless steel (doors, panels, handles, product frames and interior surfaces) are covered by a limited 60-day parts and labor warranty for cosmetic defects.





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