

# Emerson® Ventilation Products

## Information Needed for Fan Replacement

1. Is the fan a **supply** or **exhaust**?
2. Where is the fan mounted – **roof** or **wall**? (If fan is sidewall, skip question 3.)
3. What style of fan is it – **upblast** or **downblast**? (Downblast looks like a mushroom) See **Figure 2**
4. Is the fan **axial** or **centrifugal**? (If there is ductwork the fan should be centrifugal.) See **Figure 1**
5. Is the fan **direct drive** or **belt drive**?
6. What is the **horsepower**, **voltage** and **phase**?
7. What is the existing **roof curb outside dimension (O.D.)**? See **Figure 3**
8. What is the overall **wall opening dimension**? (Side wall application)

Figure 1



### Fan Troubleshooting

**Problem:** Fan is creating noise and vibration.  
Centrifugal wheel is mis-aligned.

**Solution:** Reference Wheel Align Procedure inside the motor compartment on all Centrifugal Exhaust fans.

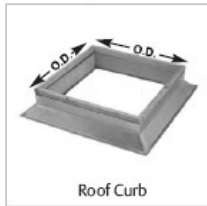
Figure 2



**Problem:** Fan is not drawing air when running.

**Solution:** Check wiring diagram to verify fan is wired correctly (Voltage, Phase, Direction). The fan will not pull air if the wheel is turning in the opposite direction of arrow located in the motor compartment.

Figure 3



**Problem:** Fan Curb Cap chosen is up to eight inches larger than existing roof curb.

**Solution:** Use treated lumber to expand existing roof curb. As long as existing roof curb is larger than the throat of the fan a curb adapter is not needed.







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## Centrifugal Exhaust Fans

	<b>Direct Drive Downblast</b>	<b>Quick Cross Reference</b> Greenheck G Series Cook ACED Series Penn D Series ACME PRN Series
	<b>Belt Drive Downblast</b>	Greenheck GB Series Cook ACEB Series Penn DX Series ACME PNN Series
	<b>Direct Drive Upblast Kitchen Exhaust</b>	Greenheck CLUE Series Cook ACRLD Series Penn FX/VSR Series ACME PDU Series
	<b>Direct Drive Side Wall Kitchen Exhaust</b>	Greenheck CW Series Cook ACV Series Penn WFX Series ACME PW Series
	<b>Belt Drive Upblast Kitchen Exhaust</b>	Greenheck CUBE Series Cook ACRUB Series Penn Furnex Series ACME PNU, PWB Series
	<b>Filtered Supply Fan</b>	Greenheck SAF Series Cook KSPB Series Penn FS Series ACME AFSI Series

## Axial Rooftop Fans

	<b>Direct Drive Downblast Exhaust, Supply</b>	Greenheck AS, AE Series Cook AQD, SEP Series Penn DAE/DK3 Series ACME LQ Series
	<b>Belt Drive Downblast</b>	Greenheck AQB Series Penn DAE Series
	<b>Belt Drive Downblast Exhaust, Supply, Supply/Exhaust</b>	Greenheck R2, RC3, RB, RBC Cook AQB Series Penn EC, ECH Series ACME HHR, HRB, HTB
	<b>Belt Drive Upblast Exhaust</b>	Greenheck RBU Series Cook LXUL, LXUM, LEU Penn UD, UB Series ACME ULB, UTB Series

## Bathroom Exhaust

	<b>Ceiling/Wall Exhaust</b>	Greenheck SP, CSP Cook GC, GN Series Penn Zephyr Series ACME VO, VQL
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## Carpet Blower



## Furnace Blower









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## Axial Sidewall Exhaust

	<b>Shutter Exhaust</b>	<b>Quick Cross Reference</b>
	<b>Guard Mounted Exhaust</b>	
	<b>Direct Drive Medium and Heavy Duty Exhaust</b>	Greenheck SE Series Cook SWD Series Penn BC, P Series ACME FQ, FN Series
	<b>Reversible Supply/Exhaust</b>	Greenheck SCR Series Penn BX Series
	<b>Standard Duty Exhaust and Supply</b>	Greenheck SBE/SBS Series Cook XLW Series Penn BLL Series
	<b>Cabinet Exhaust and Supply</b>	Greenheck SBE/SBS Series Cook XMPH Series Penn BHM Series
	<b>Belt Drive Medium Duty Exhaust</b>	Greenheck SBE/SBS Series Cook XLW Series Penn BHM Series
	<b>Belt Drive Heavy Duty Exhaust</b>	Greenheck SBE/SBS Series Cook XMWH Series Penn BHH, BCH

## Circulators

	<b>Industrial Circulators</b>
	<b>Mobile Circulators</b>
	<b>High Volume High Velocity</b>
	<b>Specialty Circulators</b>
	<b>Dock Blower – Dock Fan w/Light</b>
	<b>Light Commercial Circulators</b> See Air Circulator Catalog



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Albany, NY	518-489-0010	Rochester, NY	585-482-3876	Allentown, PA	610-437-9818	Scranton, PA	570-346-1565
Binghamton, NY	607-724-2451	Syracuse, NY	315-475-3131	Altoona, PA	814-941-7617	Stroudsburg, PA	570-424-5724
Buffalo, NY	716-853-1291	Utica, NY	315-732-4077	Erie, PA	814-459-4559	Wilkes-Barre, PA	570-824-8779
Middletown, NY	845-733-5666			Harrisburg, PA	717-558-0828	Williamsport, PA	570-323-4606