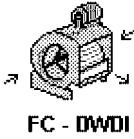


TROUBLE SHOOTING GUIDE

Trouble Shooting Guide

Problem: INSUFFICIENT AIR

Check	Look For	Remedy
BLOWER 	RPM (Measure or check pulley ratio)	<ul style="list-style-type: none"> - Increase blower RPM - Close adjustable pulley or reduce blower pulley
	Rotation - Direction (Arrow on blower housing)	<ul style="list-style-type: none"> - Reverse motor rotation change drive side
	Wheel Loose	<ul style="list-style-type: none"> - Tighten wheel set screw - Replace wheel/shaft/bearings if worn
	Wheel Dirty (Clogged)	<ul style="list-style-type: none"> - Clean
	Size	<ul style="list-style-type: none"> - Increase blower RPM or replace if necessary
BLOWER MOTOR	Overload Trips	<ul style="list-style-type: none"> - Reduce belt tension
	Insufficient HP	<ul style="list-style-type: none"> - Replace with proper HP
FILTERS, COILS	Dirty - Clogged	<ul style="list-style-type: none"> - Clean or replace
DUCT - SUPPLY & RETURN	Blockages	<ul style="list-style-type: none"> - Remove
	Size	<ul style="list-style-type: none"> - Streamline restrictions - Increase blower RPM
SPACE	Under Negative or Positive Pressure Doors are Hard to Open or Close	<ul style="list-style-type: none"> - Provide adequate exhaust opening or return duct.

PROBLEM: EXCESSIVE AIR

Check	Look For	Remedy
BLOWER	Excessive Blower RPM (Measure or Check Pulley Ratio)	<ul style="list-style-type: none"> - Decrease Blower RPM - Open adjustable motor pulley or increase blower pulley
DUCTING	Missing Components (Filters, Grills)	<ul style="list-style-type: none"> - Install
	Oversize	<ul style="list-style-type: none"> - Decrease blower RPM

PROBLEM: MOTOR OVERLOADED

TROUBLE SHOOTING GUIDE

Check	Look For	Remedy
BLOWER	Excessive Belt Tension	- Slacken belt
	Excessive Blower RPM	- Decrease blower RPM
DUCTING	Overestimated Resistance	- Decrease blower RPM
MOTOR	Motor/Supply Voltage Mismatch	- Install proper motor - Correct voltage supply
	Insufficient HP (Check specifications against blower performance curves)	- Replace with proper size motor
	Faulty	- Replace
PROBLEM: NOISY BLOWER OPERATION		
Check	Look For	Remedy
WHEEL	Hitting Loose on Shaft Loose or Broken Part	- Adjust - Tighten set screws - Replace wheel
PULLEY - MOTOR OR BLOWER	Loose on Shaft	- Tighten - Replace if worn
BELT	Pulley Alignment Loose - Floppy Tight - Bearing Grind Uneven	- Line up with straight edge - Replace
DAMPERS	Rattles	- Adjust
MOTOR	Hum or Rattles	- Adjust or Replace
DUCT	Transmitting Vibration	- Install flexible duct connections
BLOWER HOUSING	Loose Part Transmitting Running Vibration Vibrating Excessively Foreign Material in Housing	- Adjust - Install vibration isolators - Replace pulley - Align and/or replace belts - Replace wheel, shaft and bearings - Remove foreign material
BEARING NOISE	Play in Bearing Loose Bearing Collar	- Replace shaft and bearings - Tighten
WHISTLES IN AIR SYSTEM	All Ducts and Cabinets	- Seal holes

TROUBLE SHOOTING GUIDE

GENERAL NOISE	Blower Too Close to Listener	- Move to more remote location
PROBLEM: PREMATURE BEARING FAILURE		
Check	Look For	Remedy
BELT	Belt Too Tight With Multiple Belts Check Against Requirement	- Replace shaft and bearings, adjust belt to Delhi recommendations. - Possibly reduce number of belts to prevent bearing preloading when tightening belts
BLOWER WITH SLEEVE BEARINGS	Plaster Dust or Other Gritty Dirt Around Sleeve	- Replace shaft and bearings - Clean up dirt - Install filter - If used in dirty environment change to ball bearings
BLOWER OPERATION COLLARS - SLEEVE BEARINGS	Excessive Vibrations Missing or Worn Leather Washer	- Replace shaft and bearings - Replace
COLLARS - BALL BEARINGS	Loose Collar	- Lock eccentric collar and tighten set screw