

PRCF

RegenCore Flex

MANUAL – INSTALLATION

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Fire Hazard

Failure to follow safety warning exactly could result in serious injury, death or property damage.

Be sure to read and understand the installation, operation and service instructions in this manual.

Improper installation, adjustment alteration, service or maintenance can cause serious injury, death or property damage.

NOTE: This document is customer property and must be retained by the unit's owner for use by maintenance personnel.

MANUFACTURED BY ▼

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Product Overview

Description

RegenCore Flex (PRCF) is a high effectiveness energy recovery unit which recovers energy in the heating and cooling seasons. These units are supplied in modular fashion to allow for maximum on site installation flexibility.

General Safety Information

This manual provides information on installation, start-up and maintenance for the PRCF. Improper installation can lead to unsatisfactory operation or dangerous situations. This unit should only be installed and maintained by qualified personnel.

Installers and service personnel should have a clear understanding of the contents of this manual and the submittal documents prior to installation. Improper installation may lead to electric shock, possible injury from contact with moving parts and/or possible burns from contact with heating components. Additional safety concerns can arise from unit location such as a roof or inclement weather (outdoor installations). Additional safety precautions may be required.

Installers shall follow all codes and regulation of authorities having jurisdiction, including if applicable, but not limited to: The Local Building code; the National Electrical Code (NEC); the Canadian Electrical Code (CEC) the National Fire Protection Association (NFPA); and, OSHA.

The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, and/or the Canadian Electrical Code, CSA C22.1, if an external electrical source is utilized. The appliance installation shall conform to local building codes.



WARNING ▾

The manufacturer's warranty does not cover any damage or defect caused by modifications to the unit including unauthorized attachments of other components. Such activity may lead to unsatisfactory performance and may endanger life and property.

Submittal Documents

Detailed submittals are available for this and all related units. These submittals contain important dimensional information required to properly install the equipment. Please review them thoroughly before commencing the installation.

PRCF

Installation

Mechanical Installation

Location

PRCF units are designed to be installed in a heated space with ambient temperature between 10°C (50°F) and 40°C (104°F).

The unit must be located in an area that is accessible and free from both outdoor and building pollution sources.

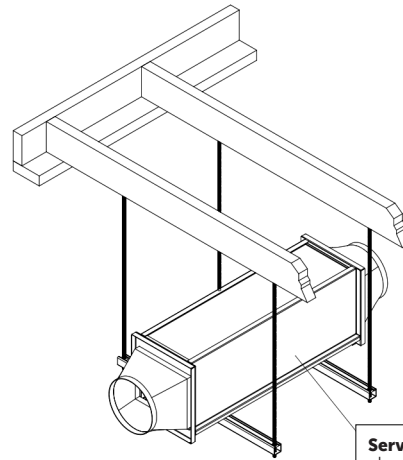
Careful attention should be made to avoid placing units intakes near chimneys, exhaust stacks, plumbing vents or appliance vents.

For best performance, the units should be placed near an exterior wall to reduce excessive duct runs.

Clearances

The PRCF unit is designed to be field serviceable, which includes the energy recovery cores, filters, fan/motor, damper linkages, and electronics. Refer to the submittal engineering drawings for the locations of access panels and safety/service areas, and ensure there is sufficient clearance for safety, inspection, and service.

PRCF CORE HANGING INSTALL ▼



Service access: Provide min. 24" clearance to access the core cartridges through the front or back panel.

PRCF

Installation

The PRCF unit comes shipped in at least three separate section: two core sections, and one fan and damper section. For the PRCF1500 and larger, the cores come shipped separate and must be field installed (see PRCF1500 Core Install image on page 4).

The PRCF can be mounted on a support frame, suspended from floor joists in either a mechanical room or above a dropped ceiling.

The PRCF can be oriented in any direction. The central section can be installed right side up, or upside down to allow access to the removable panels from beneath (for a hanging unit), it could also be installed vertically on a wall.

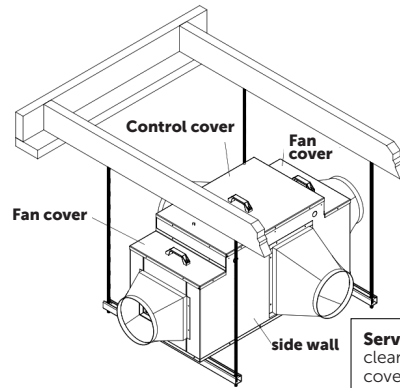
The core sections can also be installed in any orientation, either horizontally or vertically. For vertical installation a full sized condensate tee must be installed at the low point in the duct section between the cores and the center section. For horizontal installation, ensure the drainage point is pointing down, and that there is at minimum at minimum a slope giving 1/4" rise for every 12" run to ensure condensate drainage.



WARNING

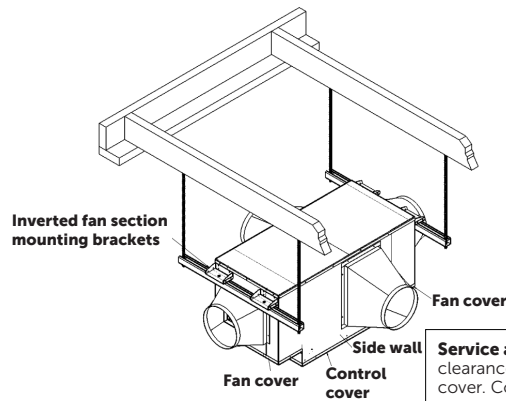
Ensure the condensate drain is on the warm side of the core section.

PRCF FAN-DAMPER HANGING INSTALL



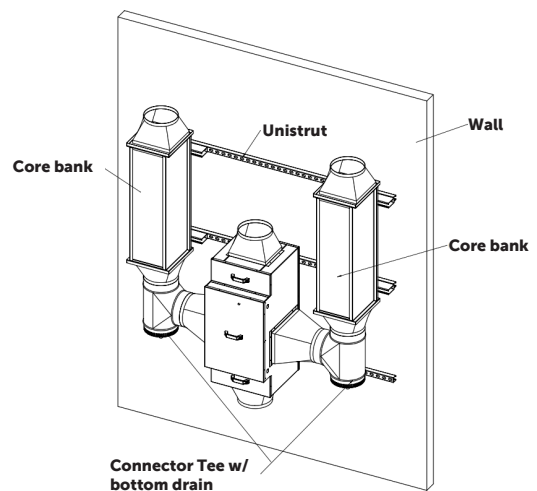
Service access: Allow min. 12" clearance above the control cover. Controls and fans are accessed through the top.

PRCF INVERTED FAN-DAMPER HANGING INSTALL



Service access: Allow min. 12" clearance above the control cover. Controls and fans are accessed through the top.

PRCF VERTICAL WALL INSTALL



PRCF

Installation

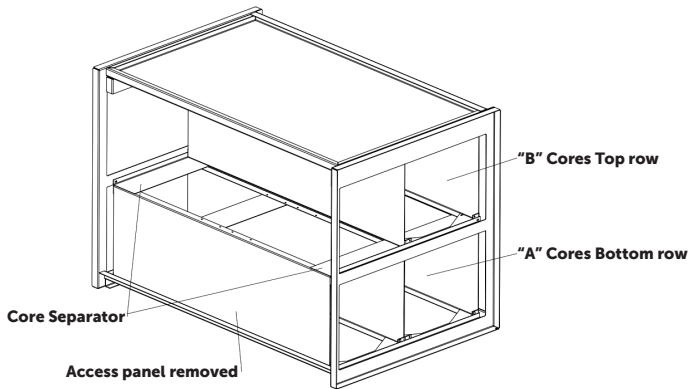
Core sections for the PRCF1500 and larger come with the cores separated for ease of installation.

Ensure there is 24" clearance to access the heat exchangers through the front or back panels.

Two sets of cores will be shipped. The "A" cores form the bottom row and the "B" cores form the top row of the heat exchanger.

Check the core layout label, remove the access panel, and slide the cores into the heat exchanger box.

PRCF 1500 CORE INSTALL ▼



Duct Connections



Building pressure relief shall be provided by others as required per local code.

Ductwork shall be fastened to the provided connection points on-site by others. The appliance shall not be used to support the weight of any attached ducting unless explicitly approved by SolutionAir.



In colder climates where the PRCF will not run continuously, motorized shut-off dampers may be required on the fresh-air inlet/exhaust outlet ducts.



DO NOT install backdraft dampers in any duct connection to the core boxes.

Weather hoods

Weather hoods require the following:

- 1/4in (6mm) mesh bird screens
- Allow airflow in both directions (no backdraft flaps)

Installation

- Install hoods a minimum of 10ft apart and from any contaminant exhaust. Check local codes for minimum separation distances.
- Locate weather hoods in an open and clean area
- Insulation is recommended for longer duct runs to the core boxes and all ducting directly connecting to the outside of the building.
- Always follow local codes

Installation

Electrical Installation

NOTE: Use Copper Conductors Only:

Main Power Connection

All connections to the unit and the appliance must conform to the applicable Electrical Codes.

1. Ensure supply voltage is appropriate for the appliance as stated on the rating plate. See submittal drawings, attached wiring diagram and rating plate for proper voltage, minimum conductor ampacity and maximum overcurrent protection.
2. Appliance must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, and/or the Canadian Electrical Code, CSA C22.1.
3. Refer to the unit submittal drawing to determine the suggested location of the field wired power supply. Where a disconnect is supplied as part of the unit, the main power connection will be the line side of the disconnect.
4. If the unit is not supplied with a factory mounted disconnect (as shown in Figure 7), a field supplied disconnect must be installed in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, and / or the Canadian Electrical Code, CSA C22.1. Where a disconnect is supplied by others, the main power connection to the unit will be the line side of the main splitter block. Refer to unit electrical wiring diagrams for details.
5. Ensure that the routing of the power supply wiring does not interfere with removal of any unit access door, or in any way hinder servicing of the unit.
6. Refer to the submittals for electrical service routing. Use knockouts for power supply routing.
7. For units that are shipped in multiple sections, some electrical connections may have to be made by the installer in the field. Field wiring to be done by the installer indicated by a dotted line on the wiring diagram.
8. Fuses are furnished and installed by the factory in accordance with the National Electrical Code, ANSI/NFPA 70, and/or the Canadian Electrical Code, CSA C22.1. If fuses need replacement they must be replaced by fuses of the same class and rating. Failure to do so may result in damage to parts of the appliance and/or building. If any of the original wires need to be replaced, they must be replaced with Appliance type wire with a minimum rating of 75°C except where noted.
9. On units with three-phase power supplies, make sure that motor rotation is correct as connected.

Installation

Control Installation

All field wiring must be in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, and/or the Canadian Electrical Code, CSA C22.1.

Control wiring will depend on the controls provided with the unit. A controller is provided with the PRCF unit unless otherwise specified in the submittal documents. Refer to unit electrical wiring diagrams for details.

Control Connections

Units supplied with controllers may require field-wiring to a remote sensor or BMS. Refer to appliance wiring diagrams for details.

An optional space thermostat or sensor may be shipped loose for field installation. The sensor may be duct mounted and/or wall mounted.

1. Locate space sensors or thermostats where they will provide a representative reading of the space condition.
2. Avoid areas with cold drafts or in the warm supply-air stream of the unit.
3. Do not mount the thermostat or sensor on the unit casing, as it may be affected by heat radiating off the unit.
4. Do not place near other sources of warmth, such as lamps, appliances, etc.
5. Refer to appliance wiring diagrams for details on how to wire the sensor to the control panel.
6. Ensure that all remote wiring is equivalent to factory installed wiring and that voltage drop does not exceed 5 percent.

An optional duct mounted discharge air temperature sensor may be shipped loose for field installation.

1. The sensor strip must be parallel to the flow of air.
2. The sensor must be mounted as close to the center of the duct as possible.
3. The sensor must be located in a straight section of the duct and must be 8-10 feet (2.4 to 3m) downstream from the supply air connection.
4. Do not install temperature sensors near any elbows or transitions.
5. Refer to appliance wiring diagrams for details on how to wire the sensor to the control panel.

6. Ensure that all remote wiring is equivalent to factory installed wiring and that voltage drop does not exceed 5 percent.

An optional remote control panel may be shipped loose for field installation.

1. Locate the indoor panel where operation and maintenance personnel have ready access.
2. Refer to appliance wiring diagrams for details on how to wire the sensor to the control panel.
3. Ensure that all remote wiring is equivalent to factory installed wiring and that voltage drop does not exceed 5 percent.

Where possible, the low limit temperature sensor is factory mounted. Some unit configurations require the sensor to be field mounted in the supply air ductwork. In this situation, the sensor and field wiring will be coiled up in the weather housing. The installing contractor shall install the sensor approximately 10 ft. (3 m) down the supply air duct.

Installation

Installation Checklist

The following checklist is a summary of all the steps necessary for a successful start-up. This is not intended to replace the detailed information in the applicable sections of this manual.

General Installation	Date Completed	Signed
Inspect unit for freight damage or missing items on the Bill of Lading.		
Confirm the installation location meets the necessary clearances.		
Install ductwork.		
Install pitch pocket for electrical supply if required.		
Ensure unit is properly sloped.		
Seal, bolt, and cap all split joints as required.		
Install RegenCores heat recovery cores as required		
Remove shipping hold downs, shipping braces etc. from appliance.		
Check all fan isolators for proper adjustment and operation.		
Install filters as required.		
Electrical Connections		
Confirm that main electrical supply matches the name plate requirements.		
Inspect control cabinets and tighten any loose connections.		
Provide a disconnect if one is not factory supplied.		
Connect power to factory or field-supplied disconnect.		
Properly ground the unit.		
Interlock unit to fire alarm system.		
Control Wiring Connections		
Complete wiring of the controllers as per wiring diagrams.		

Maintenance

Maintenance



Hazardous Service Procedures

During installation, testing, servicing and troubleshooting of this product it may be necessary to work with live electrical components and moving mechanical components. Have a qualified technician who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical and mechanical components could result in death or serious injury.

Regular maintenance is the best way to avoid untimely and expensive repairs, and it extends the useful life of the equipment. Maintenance should only be performed by qualified service personnel familiar with air-handling equipment and the local codes and requirements.

Filters

It is important to replace filters with the same efficiency filters as used when the air balance is done. Filters with different efficiencies may cause a change in airflow.

A regular filter maintenance schedule should be set-up and followed.

The filters are located close to the fans; therefore, it is recommended that the unit be shut down while the filters are being changed.

When replacing the filters, inspect the cores, clean if necessary.

Fan and Motor Assembly

The fan/motor access panel should only be opened if the power has been shut off and locked out for the appliance.

Service and Warranty Procedure

Replacement Parts

Replacement parts can be obtained from SolutionAir at mech-parts@solutionairgroup.com or 1-866-797-0760. When contacting SolutionAir for replacement parts, refer to the model number and serial number on the name plate.

Warranty Parts

See limited warranty below for what is covered. Contact SolutionAir at mech-parts@solutionairgroup.com or 1-866-797-0760 for warranty parts instructions. Please have the unit model and serial numbers available. The warranty part may need to be returned to SolutionAir to obtain a new warranty part. SolutionAir reserves the right to repair or replace a part under warranty.

Maintenance

Maintenance Checklist

General Maintenance	Quarterly	Annually
Inspect inside of unit for water leaks, foreign material etc.	X	
Clean or replace filters with equivalent to those supplied by manufacturer.	X	
Check cooling device drain pans and traps for cleanliness and blockage.	X	
Check all dampers, linkages and damper actuators and adjust and tighten as required.	X	
Electrical Maintenance		
Check for loose wire connections in control panel.	X	
Check motor amp draw against name plate.	X	
Inspect all contactors to ensure they are clean and making good contact.	X	
Check all safeties.	X	

Troubleshooting

Symptom	Possible Cause	Corrective Action
Blower/Fan fails to turn	Blown fuse or tripped circuit breaker.	Reset breaker or replace fuse. Check current draw.
	Electrical circuit problem.	Check supply voltage. Check control wiring.
	Motor overloaded.	Verify the fan spins freely, otherwise replace.
	Problem with motor.	Repair or replace.
High motor current draw	Supply and/or return static pressure is higher than design.	Reduce pressure-drops within ductwork. Increase fan size.
	Motor voltage not matched to electrical supply voltage.	Check nameplates. Correct as necessary.
	Electrical short within motor.	Repair or replace.
	Loose electrical connection.	Repair connection.
Low airflow	Dirty filters.	Replace filters.
	Supply and/or return static pressure is higher than design	Reduce pressure-drops within ductwork. Increase fan size.
	Blower/Fan speed too low.	Verify motor speed and pressure drop on fan curve. Check that motor is below maximum RPM. Increase size of fan/ motor.
	Blower/Fan is rotating backwards.	Correct as necessary.
	Ductwork losses too high.	Ensure proper ducting practices are followed. Remove elbows and/or restrictions near the blower/fan.
	Leaks in ductwork.	Repair as required.
High airflow	Blower/Fan speed is too high.	Decrease maximum fan speed if necessary.
	Filters are not installed.	Install filters in all filter-holder locations. Refer to submittal for types/locations.
	Ductwork losses are lower than expected.	Reduce fan speed.

Maintenance

Symptom	Possible Cause	Corrective Action
Excessive noise/vibration	Fan/Wheel rubbing.	Align/adjust inlet cone.
	Bearings.	Replace motor.
	Motor-frame dampers loose/ineffective.	Tighten mounting bolts. Check springs/dampers, replace as required.
	Dampers loose.	Check damper blades, if moving in airstream, tighten linkages as required.
Dampers do not move	Dampers out of sync.	Follow instructions on controller
	Blown fuse or tripped circuit breaker.	Reset breaker or replace fuse. Check current draw.
	Electrical circuit problem.	Check supply voltage. Check control wiring.
	Motor overloaded.	Check gearmotor current draw. Check dampers ope/close freely.
	Faulty relays.	Repair or replace.
	Problem with motor.	Repair or replace.
Dampers are not synchronized	Problem with digital controller.	Contact SolutionAir.
	Problem with limit sensors.	Contact SolutionAir.
Damper timing out of sync	Problem with digital controller.	Contact SolutionAir.
Damper linkage noise/vibration	Loose/Faulty linkages	Tighten linkages where required. Be sure to check for excessive wear. Contact SolutionAir.
Controller fault/error	Problem with controller/software.	Contact SolutionAir. Describe error number.

Start-Up

Start-up Instructions

Pre-Start-Up

Prior to starting up the PRC unit, make sure the following work is complete:

Pre-Start-up Checklist	
Task	Complete
General	
All steps in installation check list are complete.	
Fan Inspection	
Manually rotate fans and confirm they move freely.	
Electrical	
Electrical power is acceptable (see below).	

Prior to powering the unit, it is crucial to check the incoming electrical power:

1. Check that the electrical power matches what is stated on the nameplate.
2. Check that the voltage on each leg is within the stated voltage range and/or does not deviate in excess of 5 percent above and 5 percent below the name plate value.
3. For three phase motors, check that the voltage difference on all three phases is within 2%.

If any of these conditions are not met, do not continue commissioning the unit. Arrange to have the power issue resolved.

Start-Up

Typical Unit Sequence of Operation

1. Blowers: With an "On" signal the controller checks fire and fault status, if the fire signal is clear and there are no unit faults.
 - a) The operation dampers are moved from their standby positions to the appropriate operational position.
 - b) After the dampers have moved to their respective operating positions the supply and exhaust blowers are started.
 - c) The supply and return fans start and run continuously.
2. Operation Mode: Operation modes are heat recovery or bypass. Operation mode is established by the unit controller based on user adjustable set points.
 - a) Heat recovery: The control dampers work in unison, with alternate groups opening and closing. The movement of the dampers alternates the operational state of the regenerative cores from charging to discharging. Figure 11: General System Airflow Diagram.
 - i) Phase I: Dampers B-D1 & B-D2 are closed and A-D1 & A-D2 are open. Core B is capturing heat from or releasing heat to the return air stream, and Core A is conditioning the supply air from the heat stored or dissipated by the previous cycle phase.
 - ii) Phase II: Dampers B-D1 & B-D2 are open and A-D1 & A-D2 are closed. The above described thermal roles of core A and B are then reversed.
 - b) Free cooling: The control dampers work in the same manner as heat recovery, the damper change over period is increased to 180 minutes, adjustable; this change over period effectively eliminates heat transfer while still allowing the cores to be purged of foreign material.
 - c) Recirculation (optional): All dampers are open allowing air to bypass the regenerative core and recirculate through the system.
3. Shut Down: On the termination of the "On" signal the unit:
 - a) First shuts off the blowers;
 - b) After the required timer delay the dampers are moved to their standby position.
4. Removing Power from the unit: If the unit is going to be disconnected from power for a significant period, it should be shut off and allowed to complete the movement to damper standby before the power is disconnected.
5. External Dampers (Optional): Redundant normally closed dampers can be installed on the outdoor air paths to ensure no air movement when the unit is not operational.

Start-Up

BMS Points List

BACnet		Modbus			Variable	Units	Read / Write	Description
Instance	Type	Instance	Size	Type				
AI 1	Analog	0	2	InputRegister	FreshAirTemp	°F	Read Only	Measured temperature of outside/fresh air
AI101	Input	100	2		FreshAirTemp_C	°C		
AI 2	Analog	2	2	InputRegister	SupplyAirTemp	°F	Read Only	Measured Discharge/Supply air temperature
AI 102	Input	102	2		SupplyAirTemp_C	°C		
AI 3	Analog	4	2	InputRegister	ReturnAirTemp	°F	Read Only	Measured return air temperature
AI 103	Input	104	2		ReturnAirTemp_C	°C		
AI 4	Analog	6	2	InputRegister	MixedAirTemperature	°F	Read Only	Measured temperature after mixing fresh & return air
AI 104	Input	106			MixedAirTemperature_C	°C		
AI 5	Analog	8	2	InputRegister	EvaporatorLeavingAirTemp	°F	Read Only	(Reheated systems only) dewpoint of supply air
AI 105	Input	108			EvaporatorLeavingAirTemp_C	°C		
AI 6	Analog	10	2	InputRegister	ExhaustAirTemp	°F	Read Only	(Dual air path only) exhausted return air leaving temp
AI 106	Input	110			ExhaustAirTemp_C	°C		
AI 7	Analog	12	2	InputRegister	SpaceTemp	°F	Read Only	Measured Room / Space temperature
AI 107	Input	112			SpaceTemp_C	°C		
AI 10	Analog	18	2	InputRegister	SpaceCO2	PPM	Read Only	Measured Room / Space CO2 level in PPM
AI 11	Analog	20	2	InputRegister	SupplyCO	PPM	Read Only	Actual Discharge/Supply air carbon monoxide in PPM
AI 12	Analog	22	2	InputRegister	SupplyCO2	PPM	Read Only	Measured Supply / Discharge CO2 level in PPM
AI 20	Analog	38	2	InputRegister	FreshAirHumidity	%RH	Read Only	Measured RH of outside air
AI 21	Analog	40	2	InputRegister	SupplyAirHumidity	%RH	Read Only	Measured RH of supply/ discharge air
AI 22	Analog	42	2	InputRegister	ReturnAirHumidity	%RH	Read Only	Measured RH of return air (room sample)
AI 23	Analog	44	2	InputRegister	MixedAirHumidity	%RH	Read Only	Measured RH of air after mixing fresh and supply air
AI 24	Analog	46	2	InputRegister	SpaceHumidity	%RH	Read Only	Measured RH of room/space air
AI 30	Analog	58	2	InputRegister	FreshAirAirflow	CFM	Read Only	Measured CFM of fresh air path
AI 31	Analog	60	2	InputRegister	SupplyAirAirflow	CFM	Read Only	Measured CFM of supply / unit discharge
AI 32	Analog	62	2	InputRegister	ReturnAirAirflow	CFM	Read Only	Measured CFM of return air path
AI 33	Analog	64	2	InputRegister	SupplyDuctStaticPress	"WC	Read Only	Measured DSP of the supply duct
AI 34	Analog	66	2	InputRegister	ReturnDuctStaticPress	"WC	Read Only	Measured DSP of the return duct
AV 1	Analog Value	0	2	HoldingRegister	SP_SupplyAirTemp	°F	Commandable	Discharge/Supply Air Temperature setpoint in °F (or °C)
AV 101		100	2		SP_SupplyAirTemp_C	°C		
AV 2	Analog Value	2	2	HoldingRegister	SP_SpaceTemp	°F	Commandable	Room/Space temperature setpoint (for reset)
AV 102		102	2		SP_SpaceTemp_C	°C		
AV 3	Analog Value	4	2	HoldingRegister	SP_SpaceDewpoint	°F	Commandable	Room/Space dewpoint setpoint (max. target)
AV 103		104	2		SP_SpaceDewpoint_C	°C		
AV 4	Analog Value	6	2	HoldingRegister	SP_MaxFreshAirPcnt	%	Commandable	Maximum fresh air setpoint in %
AV 5	Analog Value	8	2	HoldingRegister	SP_MinFreshAirPcnt	%	Commandable	Minimum fresh air setpoint in %
AV 6	Analog Value	10	2	HoldingRegister	SP_SupplyFanSpeedPcnt	%	Commandable	Supply Fan Speed

PRICE REGENCORE FLEX (PRCF) STARTUP REPORT

To enable the Limited Warranty, this form must be submitted to mechsupport@solutionairgroup.com

General

Job Name

Order Number

Installation Address

City

State/Prov.

Name of Person performing Start-up

Start-up Date

Service Company Name

Service Company Phone Number

Unit Information

Unit Model Number

Serial Number

Nameplate Rating (volt/phase/frequency)

INSTRUCTIONS: Check off boxes (Yes, No, N/A). Not all units contain each option listed in this form. Check off N/A if the statement/question is not relevant to this product. Fill in blank spaces with required information, when applicable. If the statement/question is not relevant to this unit, mark N/A in the blank space.

Please make note of any issues that you encounter in the inside the "Comments" section.

**CAUTION: Dangerous high voltage may be present.
Disconnect all power supplies prior to performing initial inspection.**

PRICE REGENCORE FLEX (PRCF) STARTUP REPORT

To enable the Limited Warranty, this form must be submitted to mechsupport@solutionairgroup.com

Initial Inspection

Any visible damage?	Yes	No	N/A
Are shipping brackets removed?	Yes	No	N/A
Nameplate electrical (Volt/Phase/Frequency)	_____		
Are disconnect and fusing properly sized?	_____		
Are remote sensors and controls installed?	Yes	No	N/A
Is cooling device condensate trapped?	Yes	No	N/A
Are the cores stacked correctly?	Yes	No	N/A
Is there greater than 1/8" between the cores and/or supplied alignment rails?	Yes	No	N/A

Fan Start-Up

Do fans rotate freely?	Yes	No	N/A
Are fan pulleys aligned and belts properly tensioned?	Yes	No	N/A
Is fan rotation correct?	Yes	No	N/A

Supply fan voltage	1-2 _____ V	2-3 _____ V	3-1 _____ V
Supply fan current	L1 _____ A	L2 _____ A	L3 _____ A
Supply fan MMP setting	_____ A		
Supply fan RPM	_____ rpm		
Return/Exh fan voltage	1-2 _____ V	2-3 _____ V	3-1 _____ V
Return/Exh fan current	L1 _____ A	L2 _____ A	L3 _____ A
Return/Exh fan MMP setting	_____ A		
Return/Exh fan RPM	_____ rpm		
Unit Supply Static Pressure	_____ in. w. c.		

PRICE REGENCORE FLEX (PRCF) STARTUP REPORT

To enable the Limited Warranty, this form must be submitted to mechsupport@solutionairgroup.com

Controls Start-Up

Are the sensors installed correctly?	Yes	No	N/A
Is there BACnet connection?	Yes	No	N/A
Is there BAS connection?	Yes	No	N/A

Damper interval set-point _____

Comments

Signature

Date

Warranty

Limited Warranty

- (a) SolutionAir warrants and guarantees for a period limited to twelve (12) months from date of installation / commissioning or eighteen (18) from date of shipment - whichever comes first, that the Products are manufactured in accordance with SolutionAir's quotation and submittal drawing specifications and of specified material unless otherwise expressly stated.
- (b) SolutionAir will manufacture the goods to be supplied in accordance with the product specifications supplied by Purchaser. SolutionAir shall not be liable for any loss or damages of any kind resulting from errors, omissions or untimely notification of changes to the specifications that have been provided. In the event that changes to the product specifications arise, SolutionAir must be notified immediately and in writing. The Purchaser will assume liability for the cost of all material and resources, work-in-progress and finished goods that have become obsolete or that can no longer be used due to any such changes in the specifications supplied.
- (c) In the event the Products supplied do not comply with quotation and submittal drawing specifications and/or material quality standards within the warranty period, SolutionAir will either repair the Products supplied or provide replacement of such Products that conform to the quotation and submittal drawing specifications. This decision is made at the sole discretion of SolutionAir. In either case, SolutionAir will not be responsible for labor and freight charges incurred in replacing Products except as agreed to by SolutionAir in writing, nor will SolutionAir be responsible for incidental, consequential or punitive damages. In the event SolutionAir elects to repair the Products supplied, Purchaser will assist by providing SolutionAir with all details of the problem and a written quotation for the costs of such work to be carried out. If the repair is authorized by SolutionAir, then Purchaser will assist by coordinating and supervising the repair work. In the event SolutionAir elects to replace the Products, SolutionAir may either (i) direct the Purchaser to return such Products to SolutionAir or (ii) provide replacement Products to the Purchaser without the return of the original Products, in which case Purchaser will be responsible for the disposal of such original Products. Such election is at the sole discretion of SolutionAir, and all returns of Products to SolutionAir must be approved in advance by SolutionAir. In the event SolutionAir directs Purchaser to return the Products to SolutionAir for repair or replacement, Purchaser agrees to return such Products to SolutionAir in a manner consistent with the original packaging in order to prevent damage. All freight back to SolutionAir's factory and return freight to Purchaser must be agreed upon prior to return of the Products.
- (d) SolutionAir makes no warranty whatsoever with respect to components or items supplied which may be warranted separately by their manufacturer. SolutionAir does not warrant factory mounted controls and components of Products supplied and owned by a third party for mounting by SolutionAir. Back charges to SolutionAir for Products under warranty by others will only be accepted if prior written approval is given by SolutionAir.
- (e) THE WARRANTIES AND LIABILITIES SET FORTH IN THE PRIOR PARAGRAPHS ARE THE ONLY WARRANTIES OR LIABILITIES OF SOLUTIONAIR. ALL OTHER GUARANTEES, WARRANTS, CONDITIONS AND REPRESENTATIONS, EITHER EXPRESS OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, LAW, COMMERCIAL USAGE OR OTHERWISE, INCLUDING IMPLIED WARRANTIES FOR FITNESS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED.
- (f) The foregoing warranty shall not take effect unless Purchaser shall inform SolutionAir in writing of any flaw, defect or deficiency in the Products promptly after such flaw, defect or deficiency becomes apparent and, in any case, not later than one (1) year from date of shipment. The warranty provided for under these terms shall be void upon the following: (i) the unauthorized repair or modification by any person other than SolutionAir of Products claimed to be defective; or (ii) the improper installation, maintenance or operation of the Products other than in strict accordance with standard industry practices and compliance with the specific recommendations of SolutionAir respecting the Products; or (iii) the misuse, negligence, or operation of the Products other than for their intended purpose.

The SolutionAir warranty is void if:

- 1. The unit is not installed and serviced in accordance with manufacturer's recommendations.**
- 2. Operation, maintenance, start-up and shut down are not in accordance with manufacturer's instructions.**
- 3. Unit is operated in conditions not specified by the manufacturer.**
- 4. The unit is operated while the building is under construction.**
- 5. Unit is used for application which it was not intended**



This document contains the most current product information as of this printing.
For the most up-to-date product information, please go to SolutionAirGroup.com

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