

REGENCORE FLEX

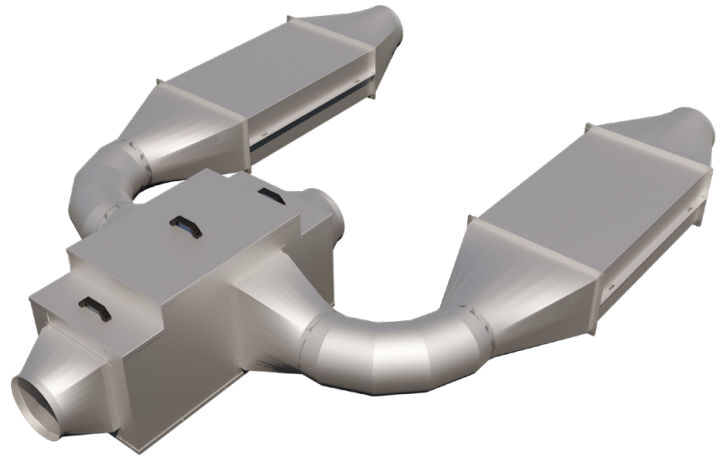
Energy Recovery Unit



RegenCore Flex

RegenCore Flex (PRCF) is a high energy recovery unit which can recover up to 90% sensible energy during both heating and cooling seasons. The new regenerating core product sets itself apart from other recovery devices with its fully tested design, industry leading effectiveness of up to 90% and no pre heat requirement down to outdoor temperatures of -40°C/F.

The PRCF can be mounted in any direction and configuration to meet the needs of any space. It is ideal for use in compact applications.



Features

S standard feature **O** optional feature

Cabinet

- S** 18 GA galvanized steel panels
- S** Lift off access panels
- S** Condensate drain connections
- O** Fiberglass insulation

Filters

- O** MERV 8 to 12 final filter

Fans

- S** ECM direct drive plenum fans

Changeover Dampers

- S** Ultra low-leak aluminum airfoil
- S** DC closed loop stepper motor

Heating

- O** Electric heat

Controls

- S** Constant air volume control
- O** DDC BACnet/MSTP or BACnet/IP
- O** Remote operable digital controller
- O** Internal airflow sensors
- O** Variable air volume control
- O** Unbalance airflow control (offset supply and exhaust)

Product Testing and Development

The PRCF has been rigorously tested in our state-of-the-art psychrometric chamber, providing precise performance data on heating and cooling operations.



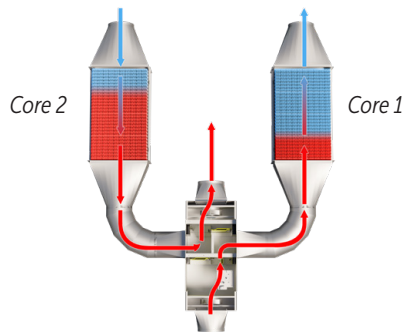
PRCF Operating Modes

Energy Recovery

There are two stages to the energy recovery process. Below is an explanation of typical operation during winter conditions:

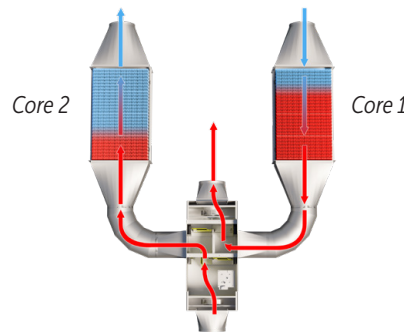
Cycle A

Core 1 storing heat from return air being exhausted from the building. Core 2 is releasing the heat previously stored to condition the colder outdoor air to supply air.



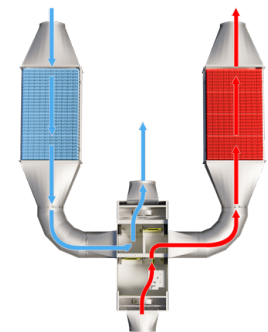
Cycle B

During this cycle, dampers are re-positioned so the inverse occurs. Now Core 1 is releasing heat captured and stored during Cycle A. Core 2 is recovering heat from the exhaust air.



Economizer

The economizer mode suspends re-positioning of the dampers and energy recovery to use outdoor air for cooling. During this mode, the dampers will reposition every 3 hours to self-clean the cores.



PRCF Dimensions

PRCF Model	A	B	C	D	E	F	Weight (lbs)
250	41.00	17.20	22.00	36.00	13.27	8.19	208
375	41.00	19.20	22.00	36.00	19.38	8.19	244
500	41.00	19.20	22.00	36.00	21.75	8.19	258
700	41.00	19.20	28.00	36.00	21.75	12.00	525
1000	41.00	19.20	28.00	36.00	17.38	23.81	726
1500	41.00	19.20	38.00	36.00	26.00	23.81	1050
2000	50.00	27.20	44.00	36.00	32.25	23.81	1324

* ALL UNITS IN INCHES, UNLESS OTHERWISE NOTED
 ** ALL WEIGHTS (LBS) ARE ESTIMATED

