

RNC 84 TPF / RNC 85 TPF



- Top ported design offers maximum install flexibility
- Adjustable High Speed (3 settings) delivers 35-95 CFM
- Very compact size – only 20” wide
- Ideal for condo and apartment applications
- Installer-friendly with optional mounting systems (wall brackets or hanging straps)
- Automatic fan defrost mode
- Washable air filters
- Patented aluminum core with lifetime warranty
- Multiple digital controls and timers to choose from

Setting a new standard  
for energy efficient, clean air homes



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## Engineering Data

### THERMALLY CONDUCTIVE, PATENTED ALUMINUM CORE

The cross-flow heat recovery core transfers heat between the two airstreams. It is easily removed for cleaning or service.

### MOTORS AND BLOWERS

Each air stream has an independent motorized impeller (120VAC).

### FILTERS

Washable air filters in exhaust and supply air streams.

### DEFROST

Supply air motor switches off and exhaust motor switches to Hi 2 to defrost core.

### CASE

Twenty gauge prepainted galvanized steel (G60) for superior corrosion resistance. Insulated to prevent exterior condensation. Drain connections 2 - 1/2" (12 mm) OD.

### MOUNTING THE HRV

The unit can be wall mounted or suspended by using the bracket kits (see Accessories below).

### INSTALLER-SELECTABLE HIGH SPEED SETTINGS

Hi 3 is factory setting. Rotate one click for Hi 2, two clicks for Hi 1. Low speed is not adjustable.

### DUCT CONNECTIONS

**RNC 84-TPF** - Four 4 inch (102 mm) duct connections.

**RNC 85-TPF** - Four 5 inch (125 mm) duct connections.

### RNC SERIES ELECTRONICS

- Built-in Relay for Interfacing to furnace.
- A standard ON/OFF switch can be added to provide Low/High Ventilation or ON/OFF functionality in order to meet building standards.
- Optional controls can be installed at the time of the installation or at a later date to upgrade the basic features of the ventilation system.

### OPTIONAL EQUIPMENT

#### CONTROLS

##### 99-DX-01 Lifestyle RNC Digital Control

- 2 Speed Operation on each mode.
- 2 user selectable operational modes: Continuous Ventilation, 20 ON/40 OFF.
- Adjustable Dehumidistat function.
- Connect to 3 wire 20 gauge low voltage wire.

##### 99-BC-01 Lifestyle RNC Ventilation Control

- 2 Speed Fan setting (Low/High).
- Dehumidistat.
- Connect to 3 wire 20 gauge low voltage wire.

#### TIMERS

**99-DET01 Lifestyle 20/40/60 Minute Timer** - Initiates high speed ventilation for 20, 40, or 60 minutes, (3 wire) 20 gauge wire (min.) 100' length.

**99-20M01 Lifestyle 20 Minute Timer** - Initiates high speed ventilation for 20 minutes, (3 wire) 20 gauge wire (min.) 100' length.

**99-101 Mechanical Timer** - Initiates High speed ventilation for up to 60 minutes, (2 wire) 20 gauge wire (min.) 100' length.

#### ACCESSORIES

**99-DH-01 Lifestyle Dehumidistat** - Initiates high speed ventilation when the indoor humidity level is above the set point. (3 wire) 20 gauge wire (min.) 100' length.

**99-163 Duct Heater w/ Electronic SCR Thermostat** - 1 Kw, 6" (150 mm).

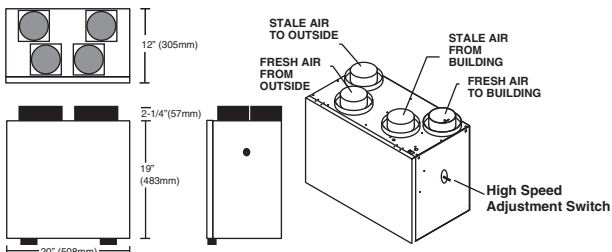
**99-185 Weatherhoods** - Two - 5" (125 mm) c/w 1/4" (6 mm) mesh screen.

**99-080-08 Mounting Bracket Kit** - for wall mounting the unit.

**99-80-101 Hanging Strap Kit** - four straps for suspending the unit.

**WEIGHT: 32.5 lbs. (15 kg)**

**DIMENSIONS: Inches (mm)**



## Performance

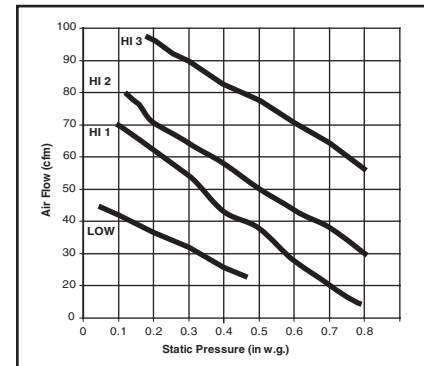
Net supply air flow in cfm (L/s) against external static pressure

E.S.P (external static pressure)	RNC 84-TPF [cfm (L/s)]	RNC 85-TPF [cfm (L/s)]
@ 0.1" (25 Pa)	107 (50)	114 (53)
@ 0.2" (50 Pa)	99 (46)	106 (50)
@ 0.3" (75 Pa)	91 (42)	97 (45)
@ 0.4" (100 Pa)	84 (39)	91 (42)
@ 0.5" (125 Pa)	77 (36)	83 (39)
@ 0.6" (150 Pa)	71 (33)	78 (36)
@ 0.7" (175 Pa)	64 (30)	70 (33)
@ 0.8" (200 Pa)	56 (26)	62 (29)
Max. Temperature Recovery	72%	72%
Sensible Effectiveness @ 65 cfm (30 L/s) 32°F (0°C)	72%	72%
*Sensible Efficiency @ 65 cfm (30 L/s) 32°F (0°C)	55%	55%
*Sensible Efficiency @ 65 cfm (30 L/s) -13°F (-25°C)	45%	45%
VAC @ 60HZ	120	120
WATTS / Low speed	63	63
WATTS / High speed	137	137
Amp rating	1.06	1.06

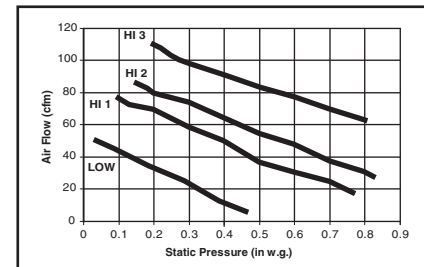
\*Sensible Efficiency – thermal \*\*Latent Efficiency – moisture

Note: Effectiveness - based on temp. differential between the 2 airstreams  
Efficiency – takes into account all power inputs

### RNC 84-TPF



### RNC 85-TPF



## WARRANTY

Units carry a **LIFETIME** warranty on the heat recovery core and a **5 year** replacement parts warranty.

All units conform to CSA and UL Standards.

