

VIVE
COMFORT

TP-N-HP21



HEAT PUMP THERMOSTAT

2 Heat / 1 Cool Multi-stage,
Compatible with heat pump system

【TP-N-HP21】



Temperature control

There are only two buttons, easy to adjust temperature. It is very clean and clear.



Clock setting

Set the specific time in the time zone through simple operations, including hours, minutes, weeks





Compressor Lockout delay

To protect the compressor from short cycling, you can select compressor off-time cycle between 0 to 5 minutes. When the thermostat compressor time delay occurs, the Cool On or Heat On display will flash during compressor lockout. (Default setting 5 minutes)



Filter Alarm

The thermostat will display the Filter Alarm after a set time of operation. This is a reminder to change or clean your air filter. This time can be set from 0 to 12 months in 1 month increments. When it's time to clean the filter warning. It will show "dEF" blink.



Select °F or °C readout

Celsius, Fahrenheit can be freely set and converted according to requirements.



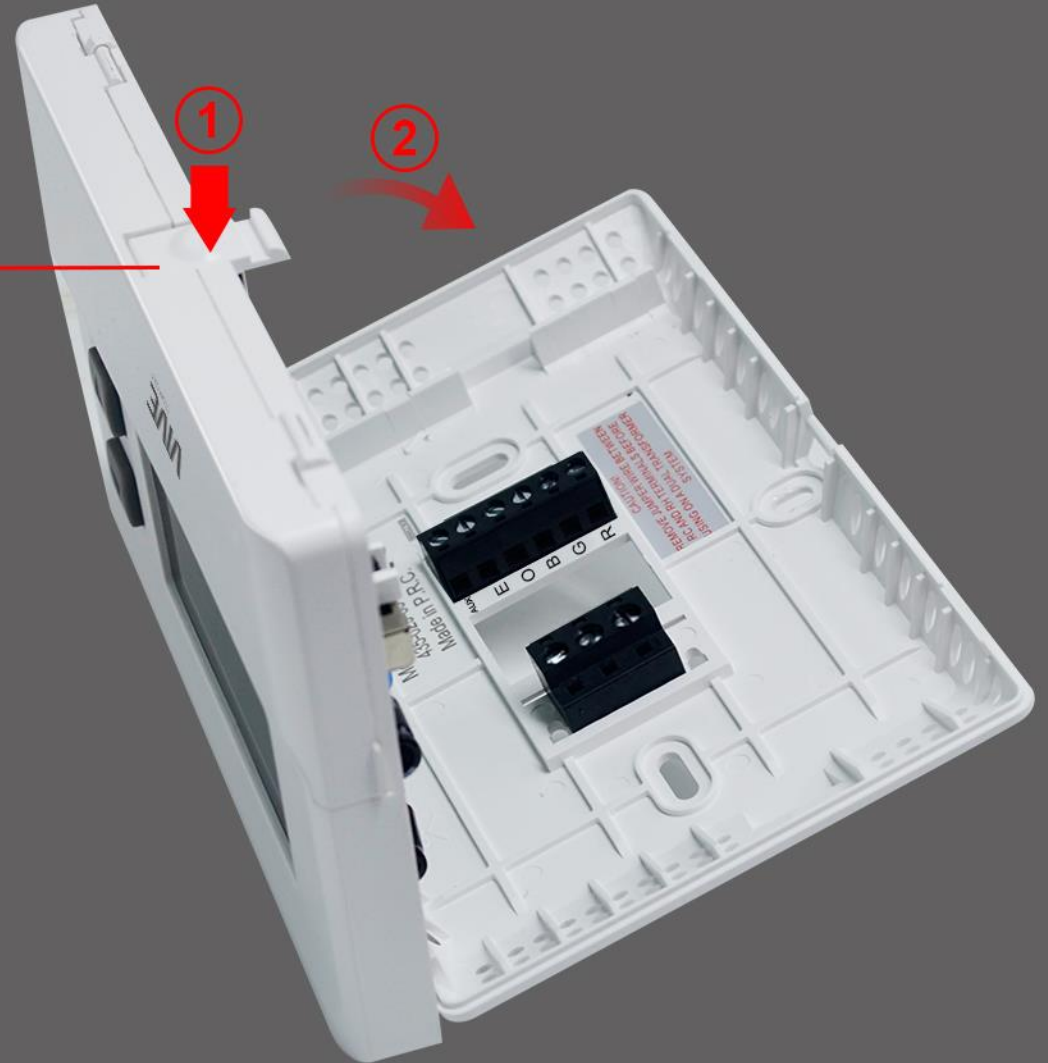


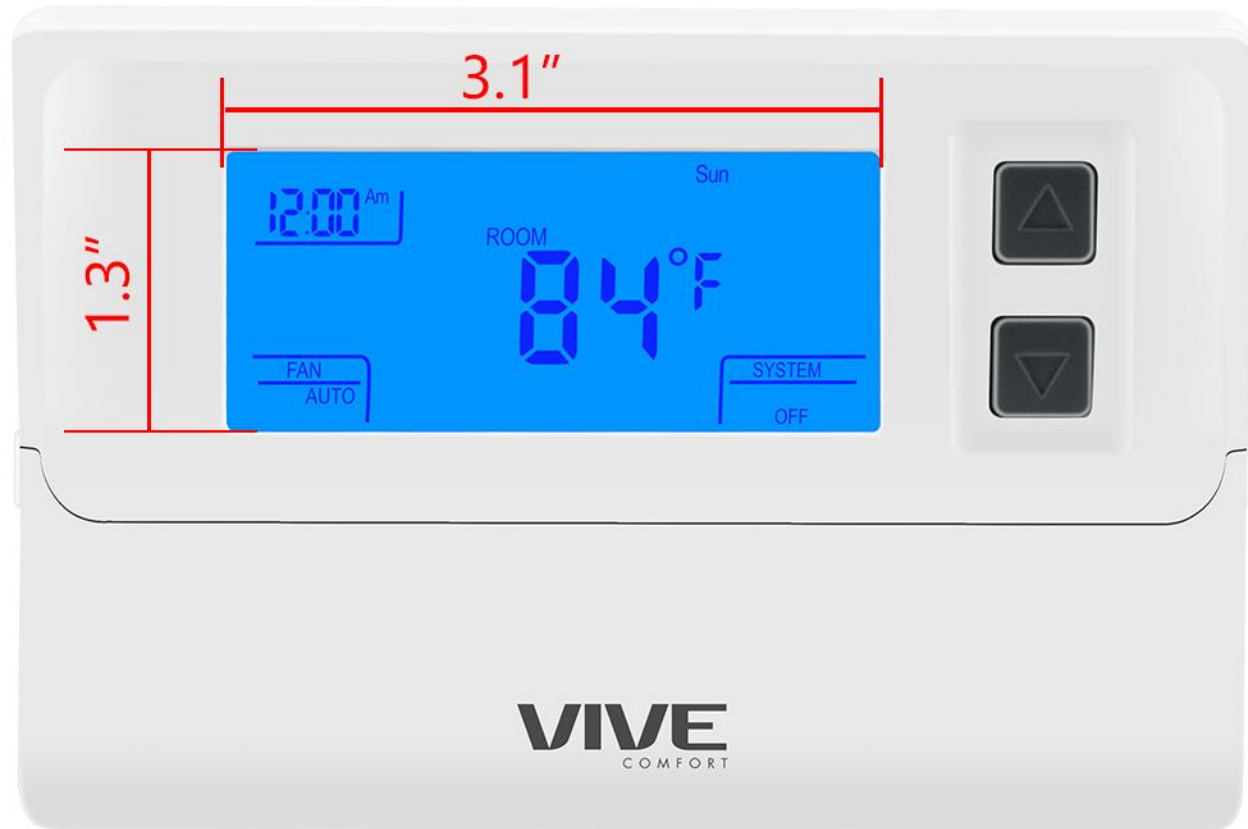
Select ON or AUTO

ON will run the fan continuously.
AUTO will run the fan only when
the heating or cooling system is on.



The back shell is easily opened by pressing the button position

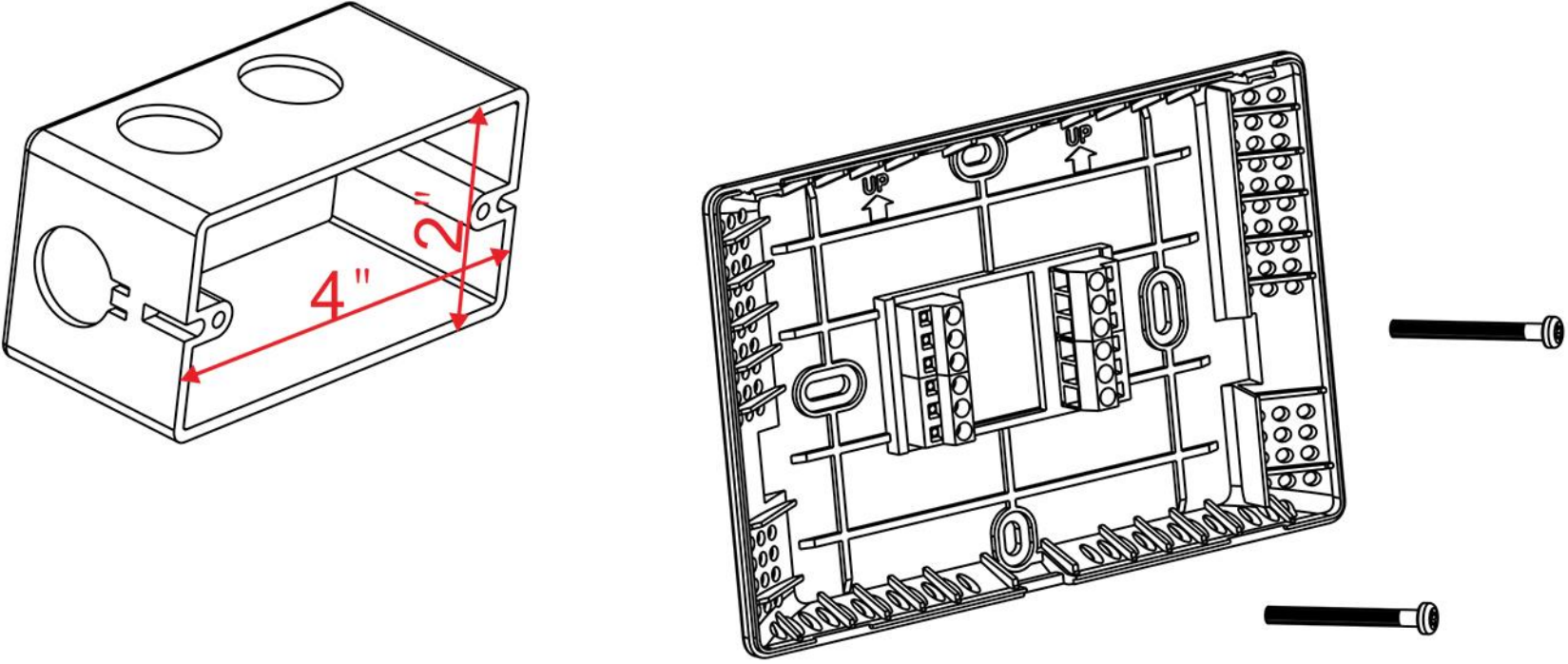




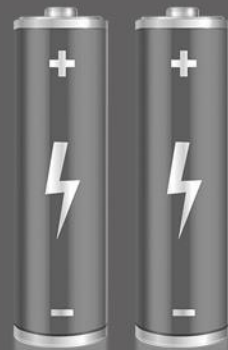
**Large LCD
display**



It is suitable for the installation with US standard junction box (4" X 2").



Easy to install battery



2AA batteries
Power supply



The front flip cover is detachable, making it more convenient for Contractor labeling program.





The cover is designed with pin insertion, which makes the installation very convenient and smooth

The Application System

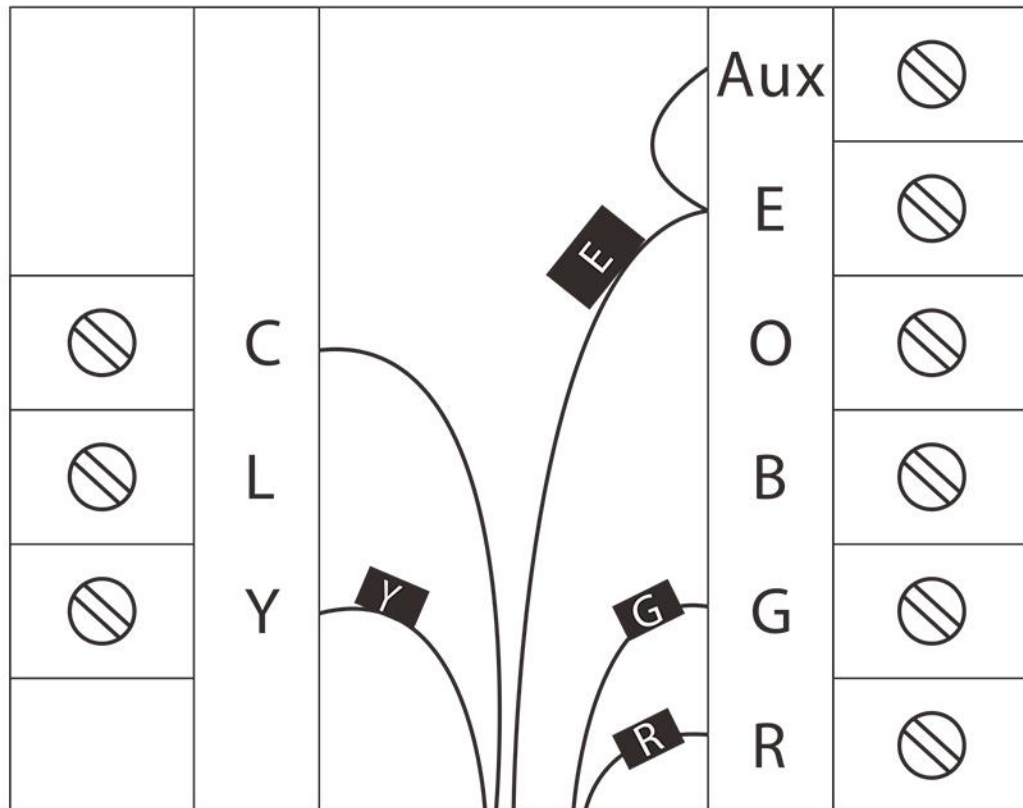
Compatible with heat pump(Electric or Gas configurable system)



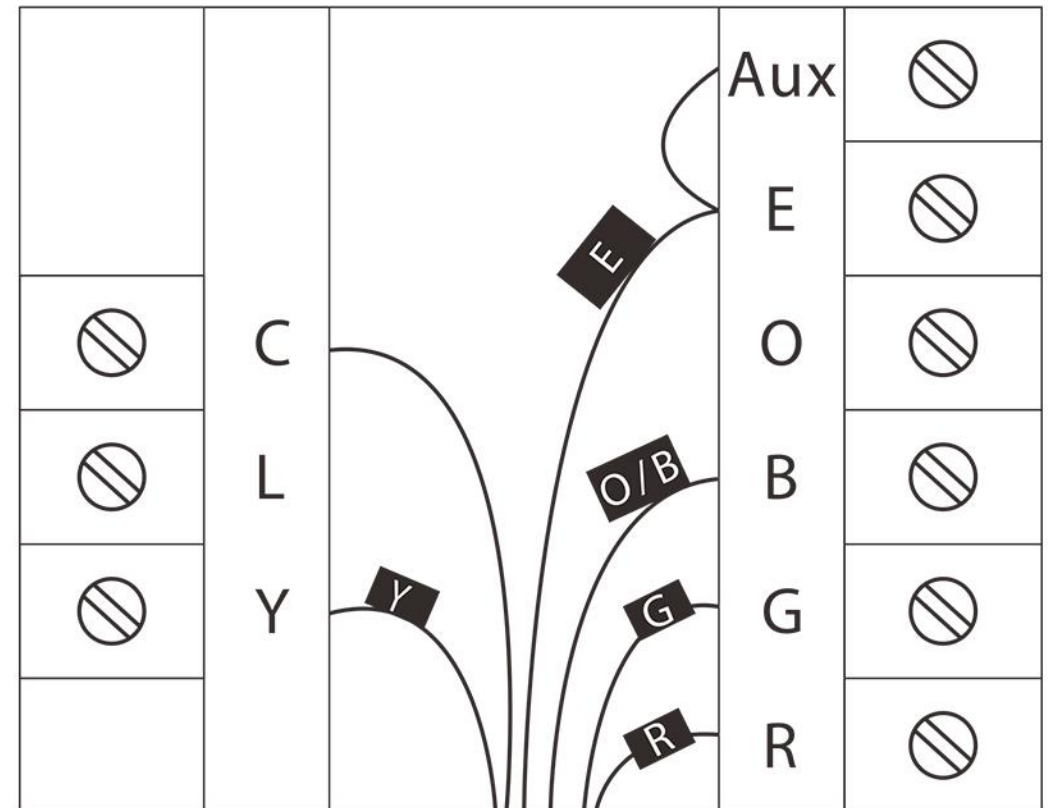
Jumper wire required to use a single Aux Heat for both AUX Heating and Emergency Heating.

Wiring Diagram

2H/1C conventional wiring diagram



Heat pump wiring diagram



Features

Large LCD display with backlight, continuous backlight option

Simultaneous heat and cool set point storage

Display of room temperature, set temperature and current time simultaneously

Fan switch with ON and AUTO functions

Permanent user setting retention during power loss. No batteries are required

Operates from 24VAC, or from 2 size “AA” alkaline batteries

Air Filter change Indicator

Low Battery Indicator

Temperature calibration

Batteries required to maintain clock function

Specification

Power Supply: 20VAC-30VAC 50-60HZ or Battery powered.

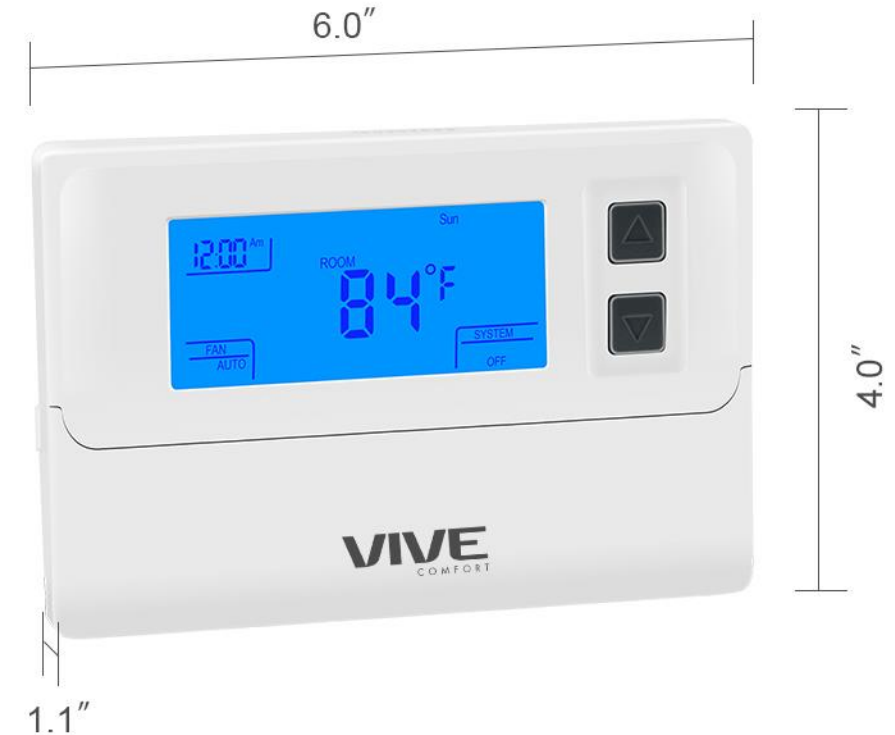
Terminal Load: 1.0A per terminal, 3.0A maximum total load

Set Point Temp. Range: 45°F to 90°F (7°C to 32°C).

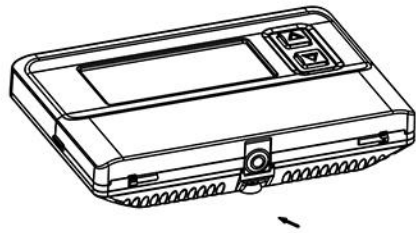
Accuracy: $\pm 1^{\circ}\text{F}$ or $\pm 0.5^{\circ}\text{C}$.

Dimensions: 6.0" W X 4.7" H X 1.1" D

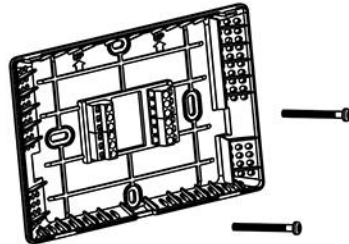
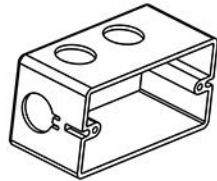
Color: White



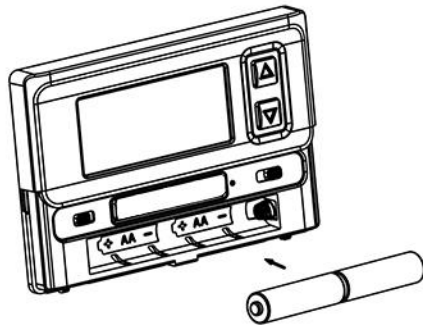
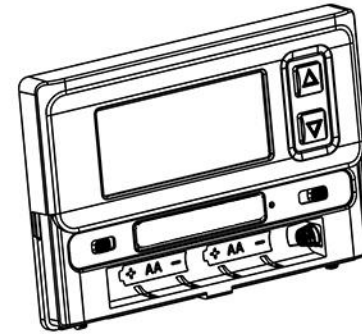
Installation procedure



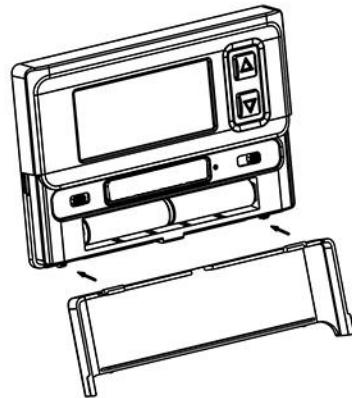
1. Push the button to open thermostat front cover



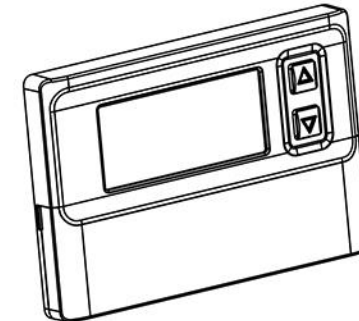
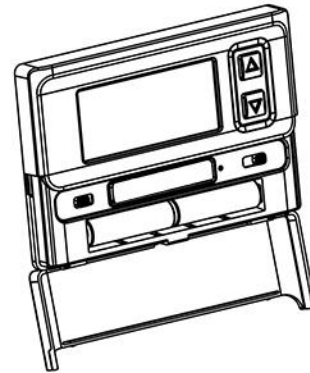
2. Installing the screws in the base cover into the junction box and finish wiring.



3. Close the lid then fitting the 2AA battery.



4. Push up the slide cover.



- C** Commercial Time Periods (Occupied/Unoccupied)
- 7D** 7 Day Programmable
- 5+2** 5+2 Programmable
- 5/1/1** 5/1/1 Programmable
- NP** Non-Programmable

Stages of Heat	Stages of Cool	Gas, Electric or Oil	Heat Pump with Auxiliary	Heat Pump without Auxiliary	PTAC Mode	Battery Power	120 Line Voltage	24V Power (Hardwire)	Outdoor Temperature Sensor Compatible	Dual Fuel Compatible	Display Size (Square Inches)	Auto Changeover	Filter Change Reminder	Room Temperature Calibration	Minimum Compressor Run Time	Compressor Short Cycle Delay	Adjustable Heat & Cool Temperature Swing	Cooling Fan Delay	Ventilation Control	Programmable Fan	Pre-Occupancy Fan Purge	IAQ Fan Mode	Always on Display Light	Keypad Lockout	Adjustable Setpoint Limits	Humidity Control	Memory Type (Permanent)	Touchscreen	Remote Sensor Capable	Millivolt	Warranty
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Terminals

Vive Model #



TP-N-601	NP	1	1	•	•	•	•				2		•		•	•								•	•			•	2	Rh, Rc, C, Y, W, G, O, B
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TP-N-621	NP	2	1	•	•	•	•	•		•	2		•		•	•								•	•			•	2	R, C, Y, W2, E, G, O, B
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TP-N-HP21	NP	2	1	•	•	•	•	•			4		•	•		•	•							•	•				1	C, L, Y, AUX, E, O, B, G, R
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TP-P-605	7D 5/1/1	1	1	•	•	•	•				2		•		•	•								•	•			•	2	Rh, Rc, C, Y, W, G, O, B
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TP-P-625	7D 5/1/1	2	1	•	•	•	•	•		•	2		•		•	•								•	•			•	2	R, C, Y, W2, E, G, O, B
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TP-P-HP21	5+2	2	1	•	•	•	•	•			4		•	•		•	•							•	•				1	C, L, Y, AUX, E, O, B, G, R
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THANK YOU

Web:www.vivecomfort.com