

TECH **3**™ SERIES

Up to 20 SEER  
Split-System  
Air Conditioners and  
Heat Pumps

iQ  
Drive

TOUGH.  
SMART.  
TAPPAN.™

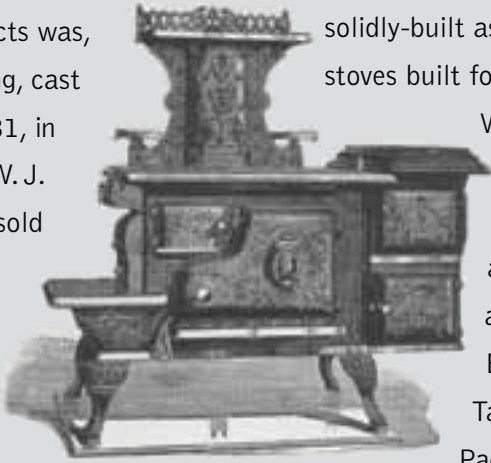


**TAPPAN**  
TAPPAN

## Built Tank-Tough.

Tappan's reputation for tough, durable products was, in the beginning, cast in iron. In 1881, in Bellaire, Ohio, W. J. (Bill) Tappan sold his wood- and coal-burning stoves door-to-door from a horse-drawn wagon. But it wasn't until World Wars I and II, when Tappan supplied cooking equipment to the U.S. armed forces, that the name gained well-deserved national recognition.

The Tappan name has always stood for appliances that are durable and innovative. Tappan's introduction of the microwave in 1955 revolutionized cooking. Then, just five years later, pilot lights in furnaces and stoves became a thing of the past with Tappan's invention of electronic ignition.



Today, our line of heating and cooling equipment is still just as solidly-built as our tank-tough stoves built for the military in World War I and II. In fact, our air conditioners and heat pumps offer an industry-leading, all-parts warranty. Even more, they're Tappan smart.

Packed with precision-engineered components that deliver extended service life, plus state-of-the-art efficiency and comfort.

## Tough, Because We're Tough On Ourselves.

When you purchase a Tappan furnace, you can be confident it's passed the toughest manufacturing standards in the industry: Our own.

By the end of the line,

each piece of equipment will undergo, on average, 144 inspections.

It's part of a unique quality control program called Demand Flow Technology™ (DFT), where consistency and workflow achieve near-zero tolerance for imperfection. Associates are trained in multiple workstation skill sets so they can check assembly from the preceding station, double-check their own work, then pass it on. Then in the exceedingly small likelihood there may be a defect, all units and each component (both mechanical and electrical) are 100% fired and tested on the line.

In the final balance, we stand

behind quality workmanship because we do more to stand watch over it.



## The Tappan Tough™ Quality Pledge.

Because the Tappan iQ Drive® System is built tough for the long run, the most critical components – the compressor and furnace heat exchanger – are backed by our Tappan Tough Quality Pledge. We'll replace your Tappan iQ Drive air conditioner or heat pump should the compressor or furnace heat exchanger fail during the first 10 years of ownership, registration



and installation of matched Tappan system is required. For even greater peace of mind, internal working parts of every Tappan unit are covered by a limited warranty for replacement up to 10 full years when registered. Ask your Tappan contractor or go to [www.tappan.net](http://www.tappan.net) for warranty details.



## The Importance of Being up to 20 SEER

Seasonal Energy Efficiency Ratio (SEER) is the unit in which air conditioning and heat pump efficiency is measured. In the world of cooling, the higher the SEER, the better the efficiency, and the lower your power bills. While most homes built in the last 10 years have 8 to 10 SEER air conditioners, Tappan has achieved up to 20 SEER in air conditioning and up to 19 SEER in an air-source heat pump.

### Just a few of the many benefits include:

- Lower energy bills
- Better dehumidification
- Fewer hot and cold spots
- Some of the lowest sound levels available

Annual costs based on 36,000 Btu unit, 1500 cooling load hours, and .08/kwh. Actual costs may vary depending on climate conditions, energy rates and patterns of usage.



## Energy Definitions

### SEER—Seasonal Energy Efficiency Rating

Measures cooling performance on air conditioners, heat pumps and gas/electric package product.

### HSPF—Heating Seasonal Performance Factor

It is a measure of the average number of Btu of heat delivered for every Watt-hour of electricity used by the heat pump over the heating season.

As ratings increase, so does unit efficiency.

## **So Smart, Its iQ Delivers Ultra-High Energy Efficiency**



iQ Drive® is the brains behind the Tappan Ultra-Efficient Comfort System. It utilizes inverter rotary technology to achieve ultra-high efficiency levels.

Traditional compressors just turn on and off – operating at 60 hertz when running. But iQ Drive inverter technology has five steps of modulation for a perfectly even variance. It runs

as low as 15 hertz, so it uses less power.

While today's compressors kick on at full speed to compensate for a small change in temperature, iQ Drive inverter technology alters the compressor speed just enough to match the slightest change in air temperature. In addition to minimal power utilization, you get a more consistent temperature level – and fewer hot and cold spots – at all times.

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## **So Quiet, You May Forget You Have It**

The Tappan iQ Drive System is not just efficient, it also delivers some of the lowest sound levels in the industry.

Today's traditional compressors operate at 3,600 rpm power. So even with sound-reduction features, they make enough noise to be heard inside the home.

In comparison, the Tappan iQ Drive rotary compressor can ramp down to 900 rpm for ultra-low power efficiency and an ultra-low noise level. That makes for a quieter home, especially at night.

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## **Helping To Save Mother Earth.**



Awarded by the U.S. Department of Energy and the Environmental Protection Agency for helping to conserve energy, promote cleaner air, and prevent global warming. To qualify, split system air conditioners and heat pumps must have a Seasonal Energy Efficiency Ratio (SEER) rating of 14.5 or higher and an Energy Efficiency Ratio (EER) of 12.0 or higher. Split system heat pumps are also ENERGY STAR® rated by a Heating Seasonal Performance Factor (HSPF) of 8.2 or higher. Ratings 25% more energy efficient than standard models.



Tappan Two-Stage, Variable-Speed products are energy-efficient, environmentally responsible products.

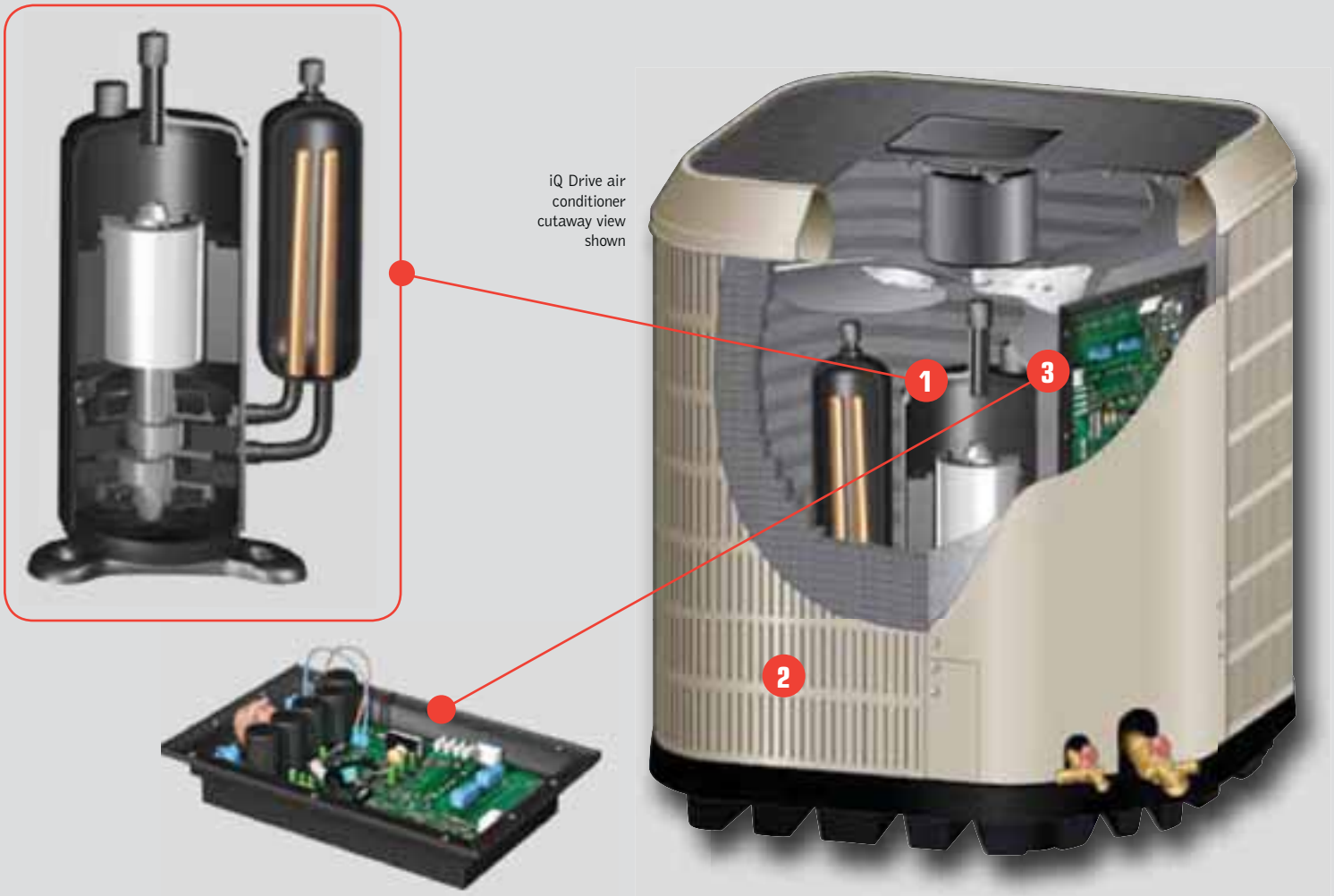


## Heat Pump or Air Conditioner?

The up to 20 SEER iQ Drive® air conditioner is an excellent choice for geographies where maximum cooling efficiency is needed. In areas where heating efficiency is also desired, consider the up to 19 SEER heat pump. They operate in the

summer the same as an air conditioner, but also provide heat in the winter. And with an HSPF (Heating Season Performance Factor) up to 10.0, they're incredibly efficient no matter what the weather.

## So Smart, Its iQ Delivers Ultra-High Energy Efficiency



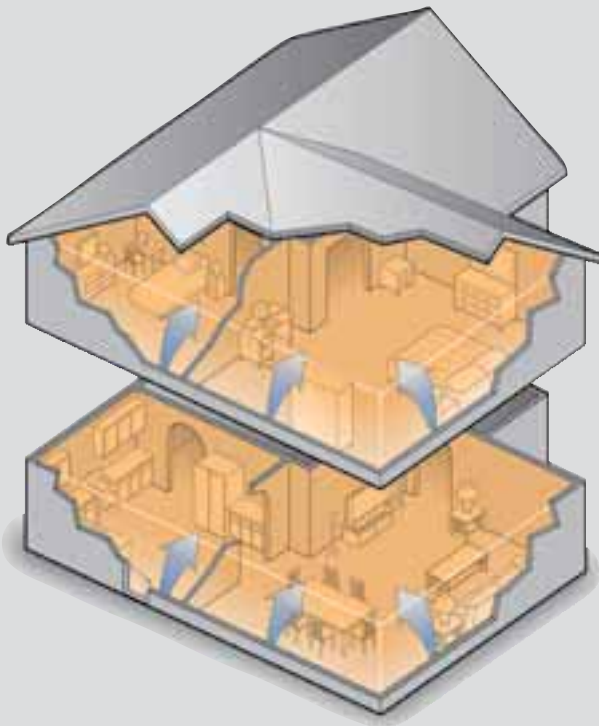
- 1 The iQ Drive® rotary compressor operates at 900 rpm for ultra-low power efficiency and an ultra-low noise level as compared to traditional compressors.
- 2 Tappan Tough™ full metal jacket protects the coil from damage by weather and flying debris. Tappan Tough construction features a Silicone protective polyurethane coating that passed a 950-hour salt spray test for harsher climates. It protects your unit from corrosion 50% more than standard outdoor finishes.
- 3 The iQ Drive inverter board regulates the compressor at all times to achieve ultra-high efficiency levels.

## Tappan iQ Drive® Indoor Section

The indoor section of this system is a Tappan variable-speed air handler or gas furnace and coil. The air handler or furnace blower and coil will circulate air throughout the home to provide a more even temperature. It reduces hot and cold spots, while improving indoor air quality and humidity control. Choose from high efficiency

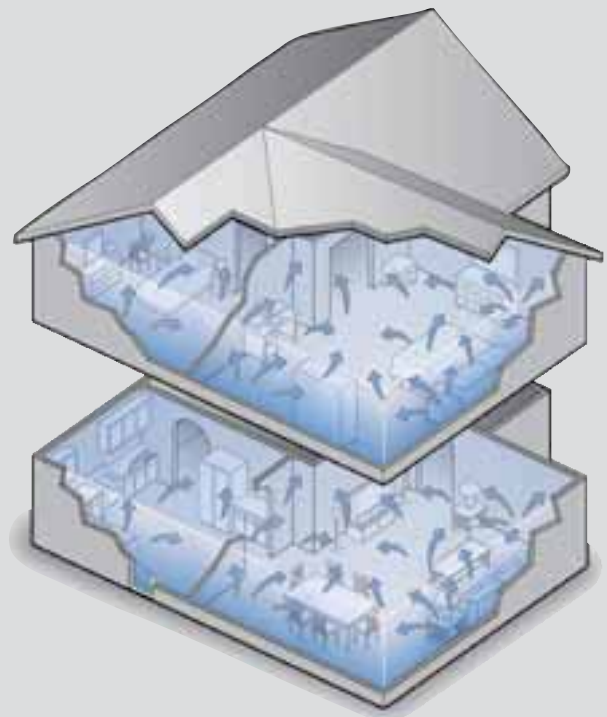
Tappan iQ Drive Ready gas furnaces for optimum heating performance, including the 97+% AFUE iQ Drive modulating furnace. Your contractor can help you choose the appropriate Tappan air handler or furnace for your iQ Drive System.

### Fixed Speed vs. Variable Speed



#### Conventional fixed-speed system shuts on and off at full output only

- Uses more energy
- Creates uncomfortable temperature swings
- Produces hot and cold spots
- More contaminants in air due to less filtration
- Reduced humidity control



#### Advanced variable-speed system runs continuously, adjusting output to match conditions

- Uses less energy
- Ramps up gently, eliminating uncomfortable temperature swings
- Eliminates noisy on/off cycles
- Continuous airflow improves filtration and humidity control
- Balances temperatures and minimizes hot and cold spots

### iQ Drive® with Air Handler

- Up to 20 SEER Air Conditioner
- Up to 19 SEER/10.0 HSPF Heat Pump
- 49-118% modulation
- 59-73 dBA sound levels



### iQ Drive® with Gas Furnace

- Up to 20 SEER Air Conditioner
- Up to 19 SEER/10.0 HSPF Heat Pump
- 49-118% modulation
- 59-73 dBA sound levels



Available with:

- 97+% AFUE iQ Drive Modulating
- 95.1% AFUE Two-Stage, Variable-Speed
- 80% AFUE Two-Stage, Variable-Speed



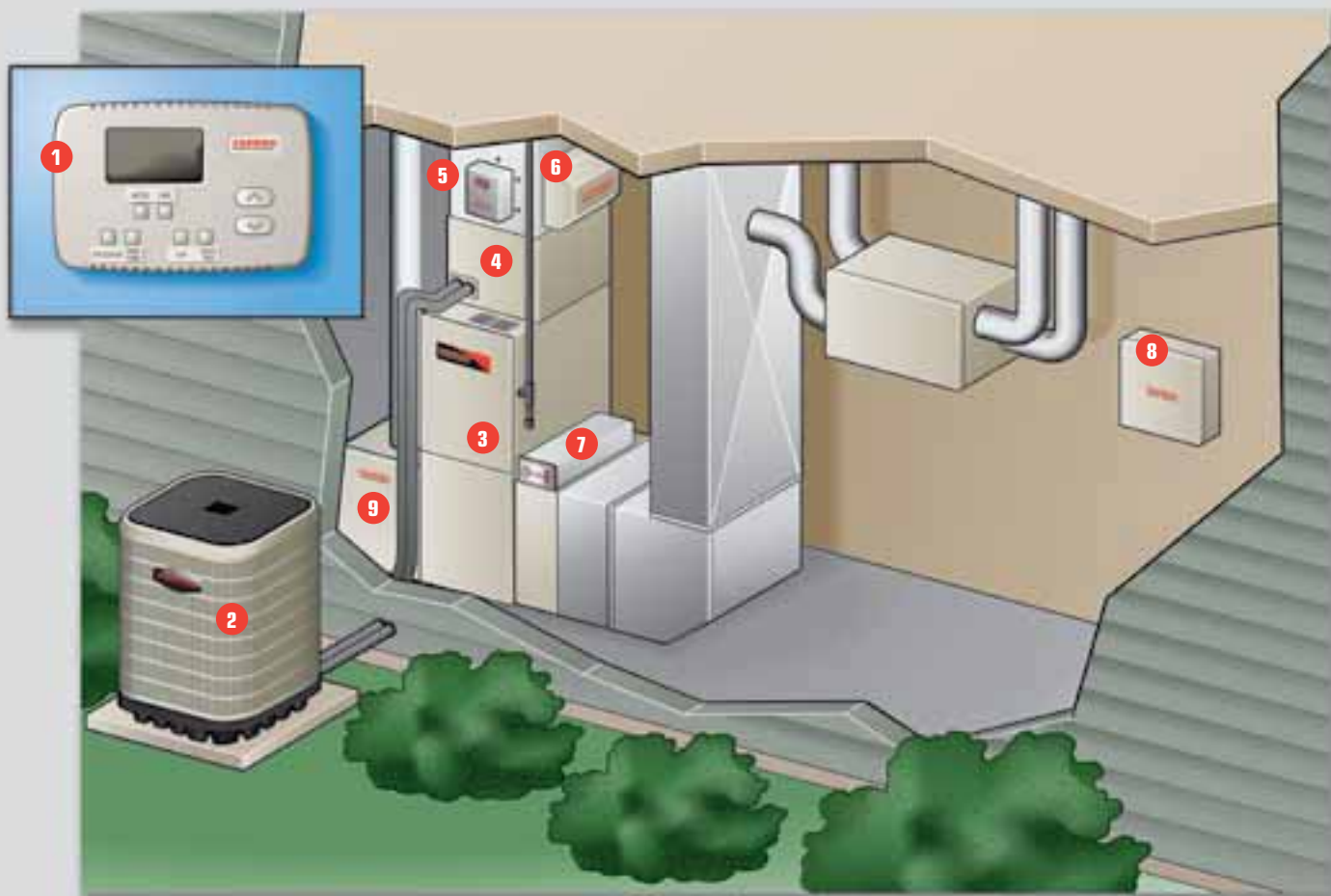
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### **Making Your Complete-Comfort System Truly Complete**

The Tappan iQ Drive System is designed to work with other Tappan accessories. Ask about whole-home humidifiers, air cleaners, HEPA systems and more. If allergens, dust, mold, pet odor, dry air, temperature control and other irritants are a problem for you or your family members, ask us how we can design a Tappan system to reduce common irritants and increase comfort throughout the home for everyone.

## Putting It All Together With Quality Service.

To learn how you can get the most comfort—and biggest return in energy savings from a totally integrated indoor comfort system, talk to your Tappan contractor. From thermostats, to air cleaners, matched coils for new condensing units, humidity and zone control systems, and other indoor air quality accessories, you're sure to get tough, dependable technology that's built to last. All of which makes you one very smart customer. Tough. Smart. Tappan.™



- |                                |                          |                      |
|--------------------------------|--------------------------|----------------------|
| 1 Programmable thermostat      | 5 UV air purifier        | 8 Zone control panel |
| 2 Air conditioner or heat pump | 6 Humidifier             | 9 HEPA air cleaner   |
| 3 Gas furnace or air handler   | 7 Electronic air cleaner |                      |
| 4 Evaporator coil              |                          |                      |

For more information, contact us, your Tappan contractor:

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit [www.energystar.gov](http://www.energystar.gov).

### Certifications



**TAPPAN**  
Heating and Cooling Products

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