#### BUILT TO A HIGHER STANDARD®

## American Standard®

HEATING & AIR CONDITIONING

BUILT TO A HIGHER STANDARD.

## American Standard® Link

Module 2



## Agenda

- Module 1 Recap
- Audiences
- Dealer Experience
- Tools & Training
- Call to Action



## Module 1 Recap



## Introducing American Standard Link

Designed to revolutionize the way installation, commissioning, and remote monitoring are conducted on variable speed systems



Installation & Commissioning Ease

#### Built to be "plug and play"

- American Standard Diagnostics mobile app for fast system setup
- Bluetooth mesh allowing connection to the equipment
- Standardized color-coded wiring
- Self-identification of equipment

**Installation Accuracy** 

#### Helping technicians ensure a quality install

- System auto-configures based on model & serial number
- Automated Charging via SmartCharge<sup>™</sup>
- Automatic System testing

**Enables Remote Monitoring** 

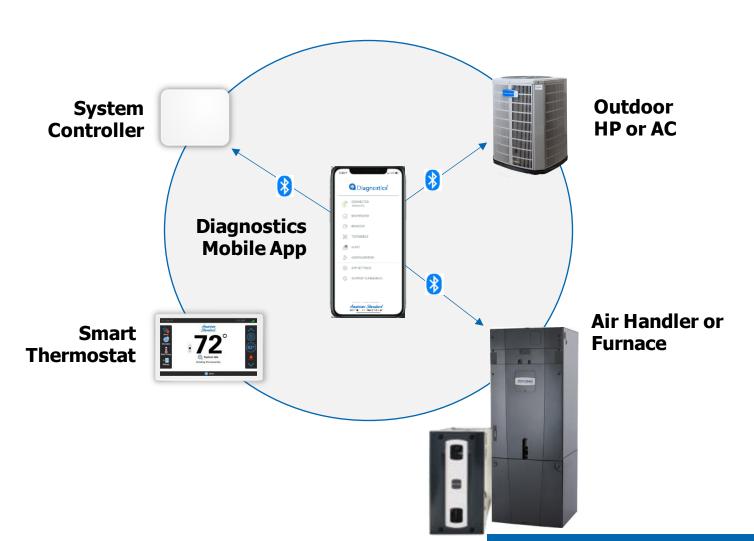
#### **Enables quicker solutions and more efficient service calls**

- Expanded data provided by Link technology
- Continuous monitoring with American Standard Diagnostics
- Remote configuration
- · Software updates automatically over WiFi





- State-of-the-art communications technology within our HVAC products
- Sensors embedded into equipment that monitor key performance criteria
- Data available via Bluetooth to technician's smart device
- Plus, connectivity to Smart Thermostat
   + American Standard Home



## **Estimated Launch Timing**

- Future extension into additional product lines
- Outdoor products are backwards compatible with legacy indoors/controls

2022 2023

#### Launched

- Platinum 18HP
- Platinum 20HP
- Platinum 18AC
- Platinum 20AC

#### Q3

- TAMX
- System Controller
- Smart Thermostat
- S8V2-C Furnace

#### Q1

- TEMC
- S9V2-C Furnace

#### Q2

- Zoning
- Platinum 19
- Platinum 17



## Features Making it Possible

- Diagnostics mobile app: provides guided configuration steps and the ability to view sensor data in real time from all components of the system - without relocating to the thermostat or having to rely on physical gauges
- SmartCharge™: automatically completes refrigerant charging process by providing verified measurements and instant feedback via the Diagnostics mobile app
- System Reports: modes of operation are tested, ensuring performance is consistent with standards and give both dealers and homeowners assurance that the install was successful



## Design Improvements

#### **CLII vs CAN Bus**

- Our fastest communication speeds
- Full system connectivity and control with the mobile app
- Patent Pending Automated Charging (SmartCharge<sup>™</sup>)
- Remote software update capability for thermostat, plus indoor and outdoor equipment
  - Automatic wireless download through American Standard Home
- Enables better remote diagnostics with a richer data set



	American Standard Current	American Standard Link
Mobile Service tool name	Ar	nerican Standard Diagnostics
Bus / Protocol	CLII	CAN
Protocol Speed	1 Kbps	50 Kbps
Automated Charging	•	•
System Verification	•	•
Remote Software updates	•	•
App Connectivity – System level	•	•
App Connectivity- Single unit	•	•
Auto-configuration	•	•
Remote Configuration	•	•
Equipment Self Identification	•	•
Remote Monitoring	•	•



## Audiences



## Primary Audience - Dealers



**Heavy Users** 



**Light Users** 

#### PERSONAS

**Heavy Users** readily utilize technologies to improve their business, and successfully upsell system upgrades like IAQ and smart home by emphasizing end-user benefits. They're proactive about growth, operational efficiency and developing their brand – and may even be expanding into other services.

Motivation: Streamlining business operations

#### MESSAGING

Variable speed systems with Link technology help highfunctioning Dealers to reduce wasted time and operate at peak efficiency

- More accurate installations = fewer warranty claims, reduced callbacks
- Remote diagnostics = know issues before being onsite, fewer truck rolls

**Light Users** play in competitive markets and find that lead time, availability and price are extremely important to their customers. To get more sales, they may sacrifice chances to upsell variable speed equipment – their main focus is to move quickly.

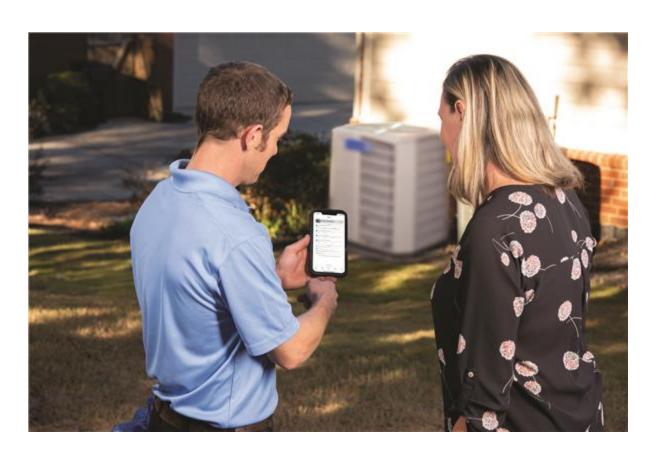
Motivation: Implementing tools and/or technology that make selling and installing equipment upgrades less challenging and easier to justify to consumers

Variable speed systems with Link technology ensure a reliable install that will help prevent future issues

- More accurate installations = verified installation / Dealer Verification Report
- Remote diagnostics = limit emergencies
- Easier installations = guided installation to move quickly



## Delivering Peace of Mind for the Homeowner



#### Verified installation

- Installer has all the data needed to quickly and accurately install and optimize performance of the HVAC equipment
- Homeowner System Report verifies quality install
- This means a better overall experience with system installation and an improved peace of mind that the homeowner is getting the comfort and efficiency they expect

#### Increased reliability of the system over time

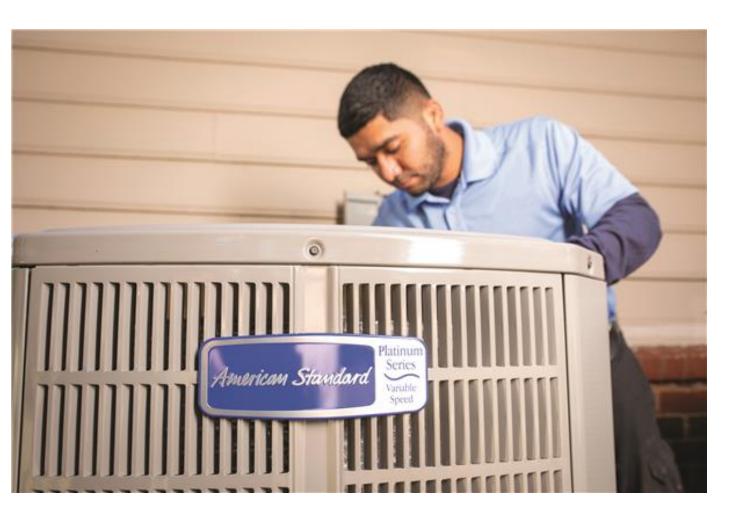
- Diagnostics can alert a homeowner's preferred dealer of even the slightest system changes
- Opting into remote monitoring means some issues may be resolved remotely by the dealer by viewing, editing, and adjusting thermostat settings
- The result is an improved peace of mind over the life of the system



## Dealer Experience



## System Configuration



Let's begin by comparing the difference of configuring a traditional system vs. configuring an American Standard Link System



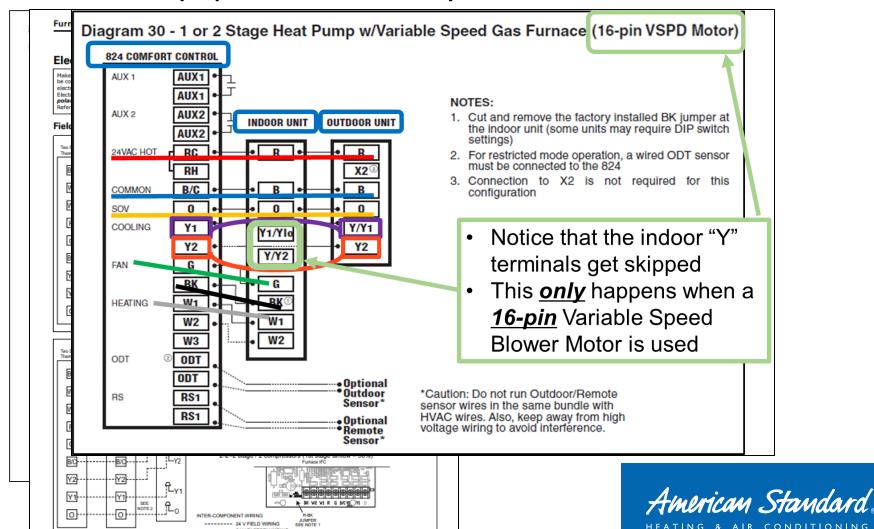
Let's review a few different things that Installers must do today to properly configure a system:

- Wire/Enable Equipment Correctly
- Measure Airflow
- Configure Airflow to correct CFM
- Run in correct mode for Charging
- Charge unit correctly



Let's review a few different things that Installers must do today to properly configure a system:

#### Wire Equipment Correctly:



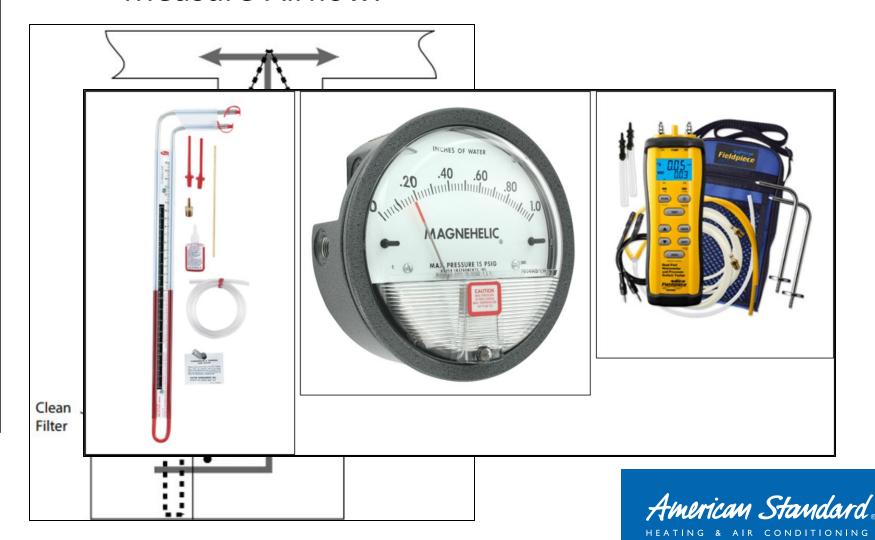
Let's review a few different things that Installers must do today to properly configure a system:

#### **Enable Equipment Correctly:**

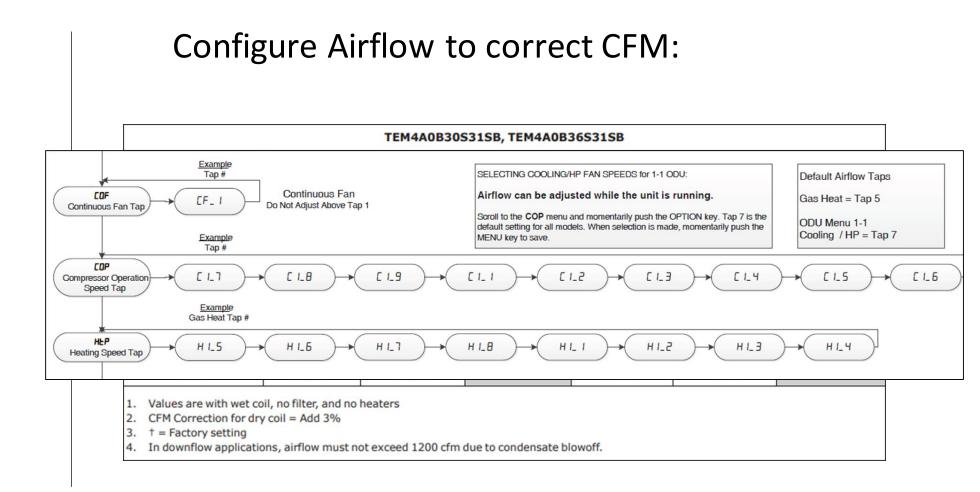


Let's review a few different things that Installers must do today to properly configure a system:

#### Measure Airflow:



Let's review a few different things that Installers must do today to properly configure a system:





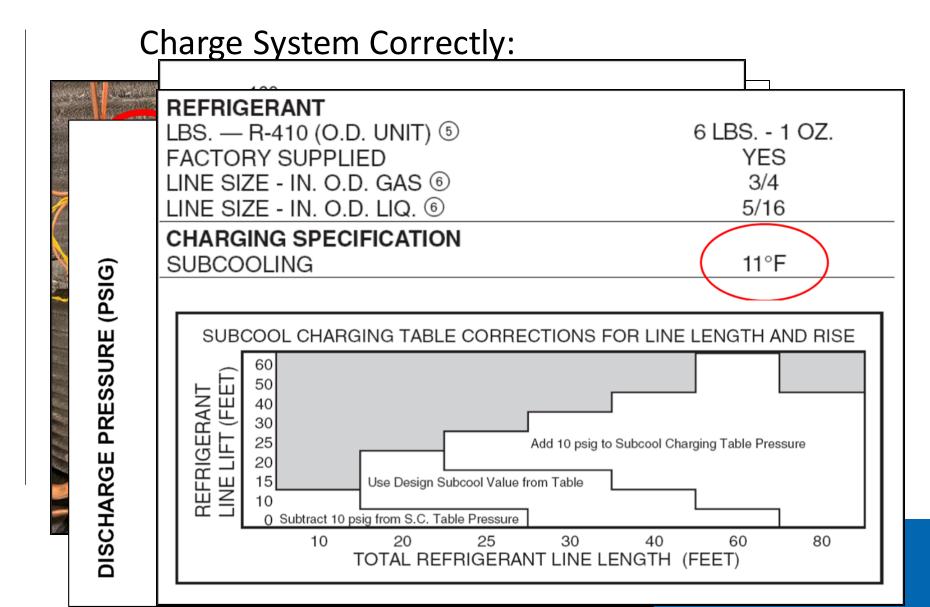
Let's review a few different things that Installers must do today to properly configure a system:

#### Run in correct mode for Charging:

- Believe it or not, <u>it doesn't always happen</u>
- Critical step for validating the correct charge



Let's review a few different things that Installers must do today to properly configure a system:



## American Standard Link Configuration

Review of Configuration with...



#### <u>Step 1:</u>

Wire Equipment (simple 2 & 4 wire wiring)

Step 2: Use the App



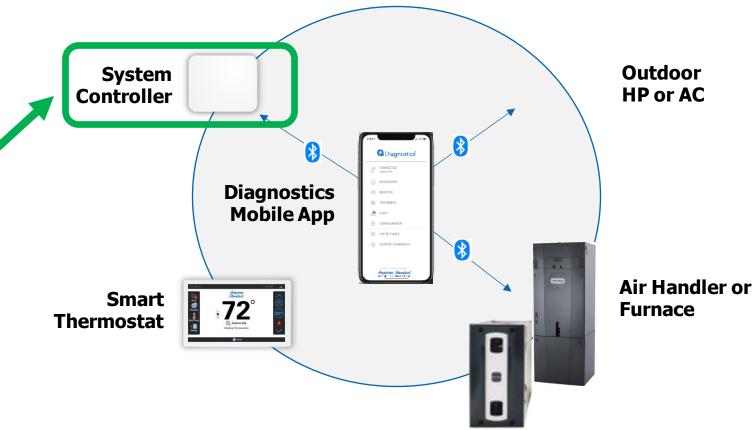


## American Standard Link is the Future

 Fully Configurable via Diagnostics App & DRC

Faults/Alerts even easier to access than before

 Full Description and list of possible causes of Faults/Alerts displayed to the Technicians





## Reduce Warranty Dollars

- Avg Tech: \$22.00/hr
- Burden Rate = Hourly Rate x 2.7 (+/-)
- Avg Tech Burden Rate: \$22.00 x 2.7 = \$60.00/hr

#### Warranty calls hurt Dealers!

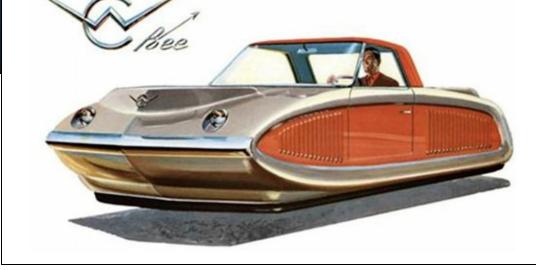
- Warranty Burden begins as soon as the truck is dispatched, so we have <u>time to a call</u> + <u>time at a call</u> = 2 hours (minimum) -\$120.00 minimum per Warranty Callback
- How many of these calls will involve:
  - Return trips /w Parts?
  - Return trips with Supervisors?
  - Return trips with Tech Support?



## American Standard Link is the Future



- Configures itself
- Commissions itself
- Charges itself
- Diagnoses itself
- Protects itself
- Runs at reduced capacity as opposed to shutting down
- Reports on itself 30 days of data -LOTS of data!
- Allows adjustments to itself remotely

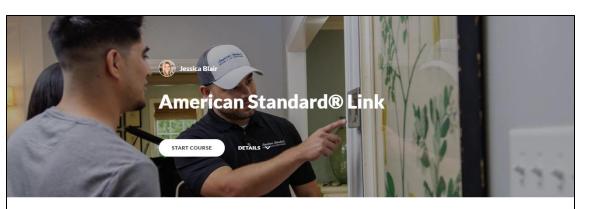


There's <u>really</u> not much more we could even imagine to ask of an HVAC System...



# Tools & Training



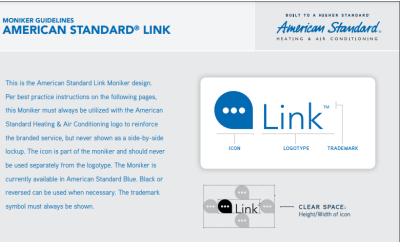




Introducing American Standard<sup>®</sup> Link: the latest innovation from American Standard Heating and Air Conditioning, which is rolling out by platform across the Variable Speed portfolio. To begin, click **Start Course** above or click one of the modules below.







### Tools & Training

#### **LMS**

Training

#### MAX

- American Standard Link Moniker
- Moniker Guidelines
- Photography

#### **Equipment Label**

QR code for app download



## **Upcoming Resources**



- Online Playbook
- Technical Literature
- Dealer Guide
- Overnight Expert
- Diagnostics Mobile App Setup
- Homeowner Guide
- Additional literature, including updates to existing pieces

## Learn More on the Module 3 Call!



## Call to Action

- ✓ Engage and ask questions
- ✓ Engage your team
- ✓ Identify Heavy User and Light User Dealers
- ✓ Complete and share the training
- ✓ Share feedback



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